

- FIGURE 1 -

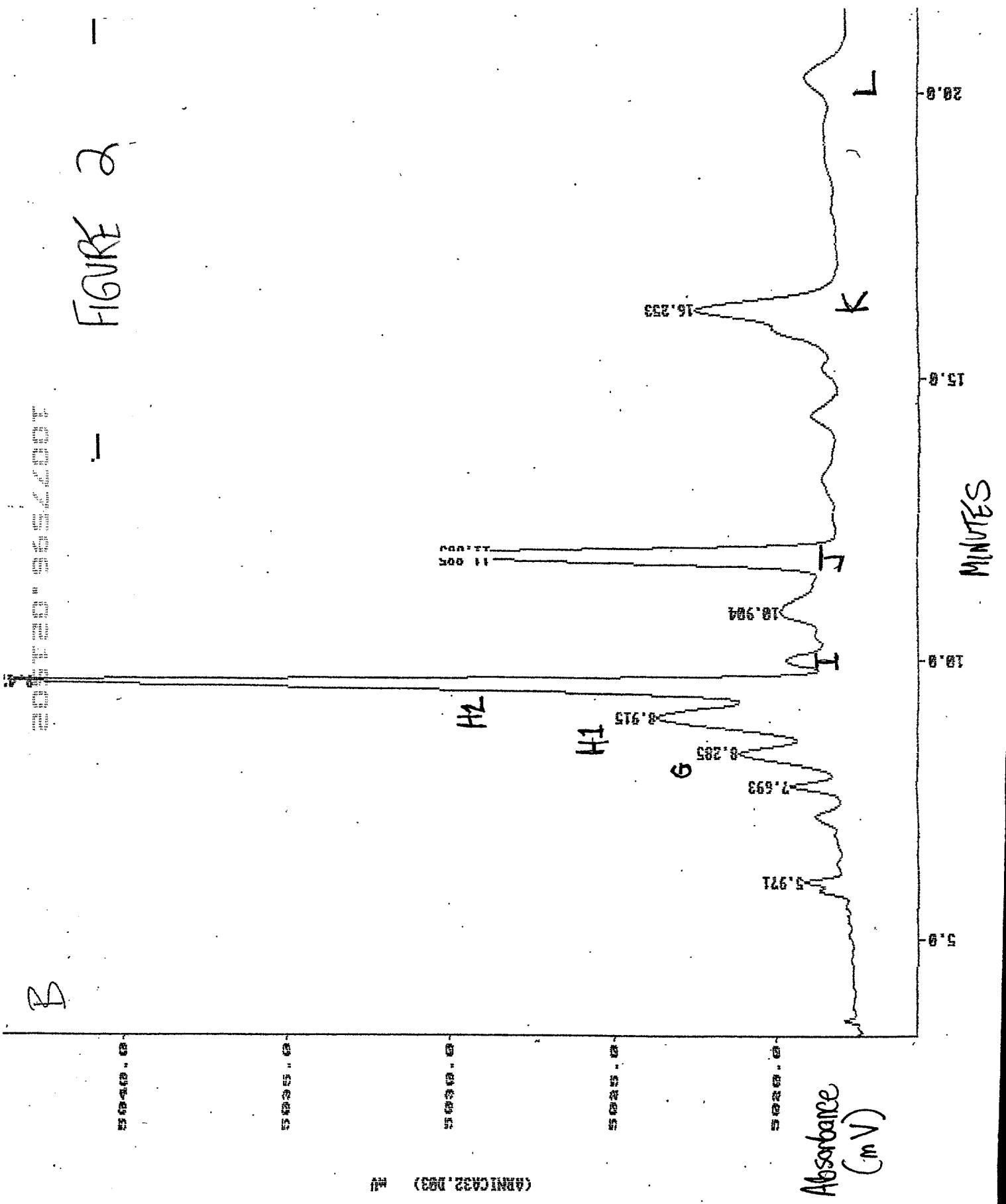


FIGURE 2

Absorbance
(mV)

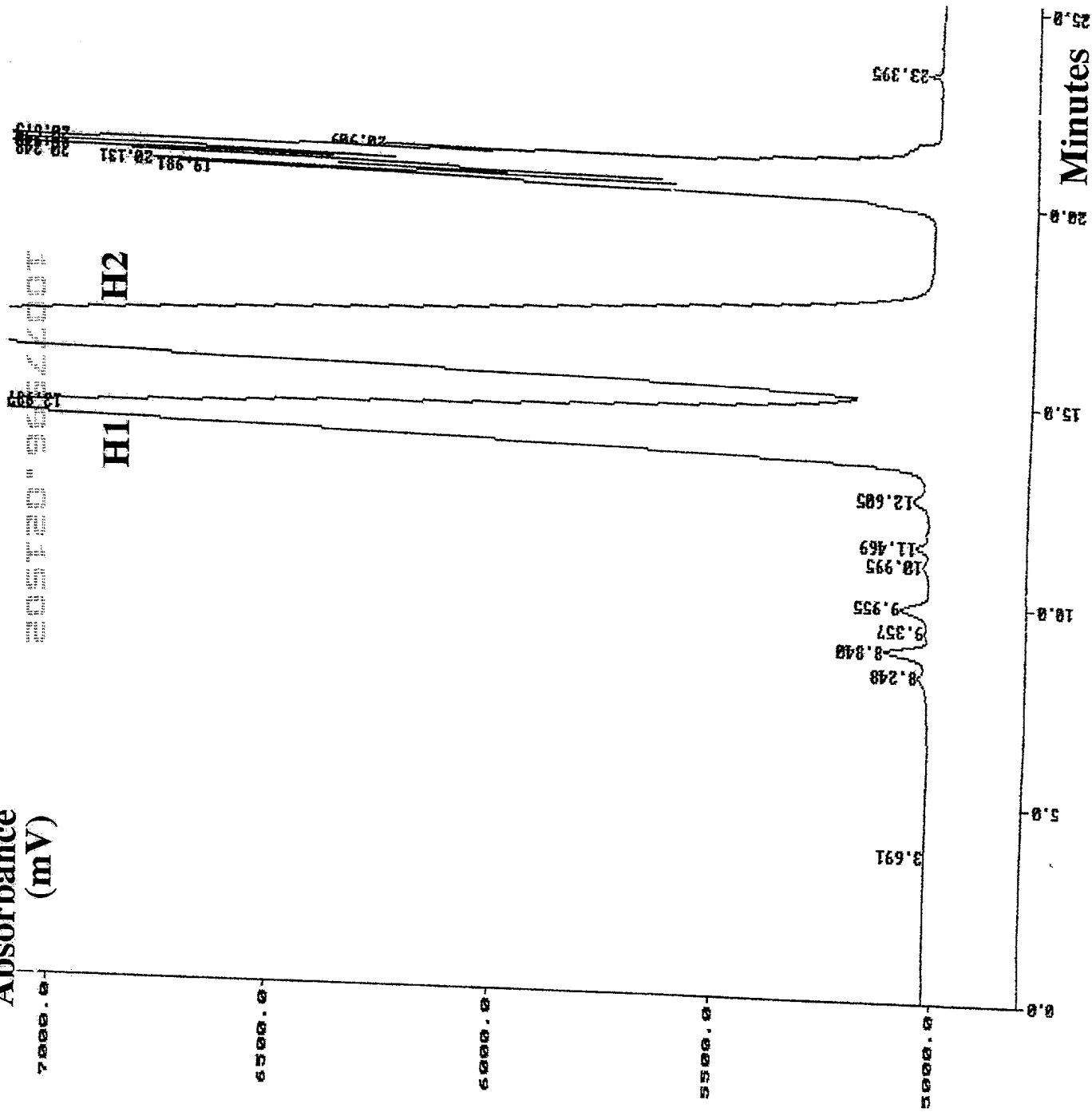


FIGURE 3

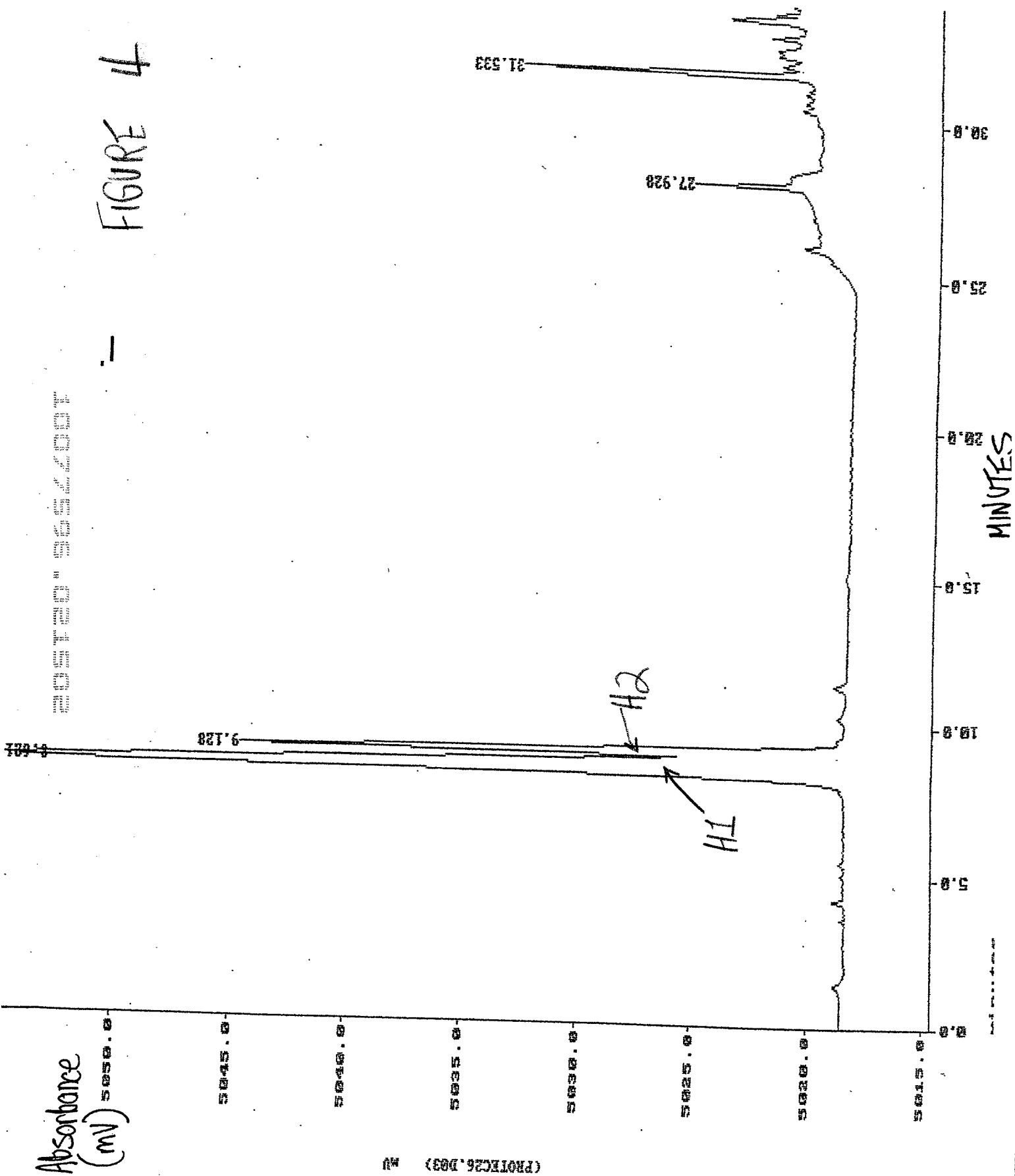


FIGURE 4

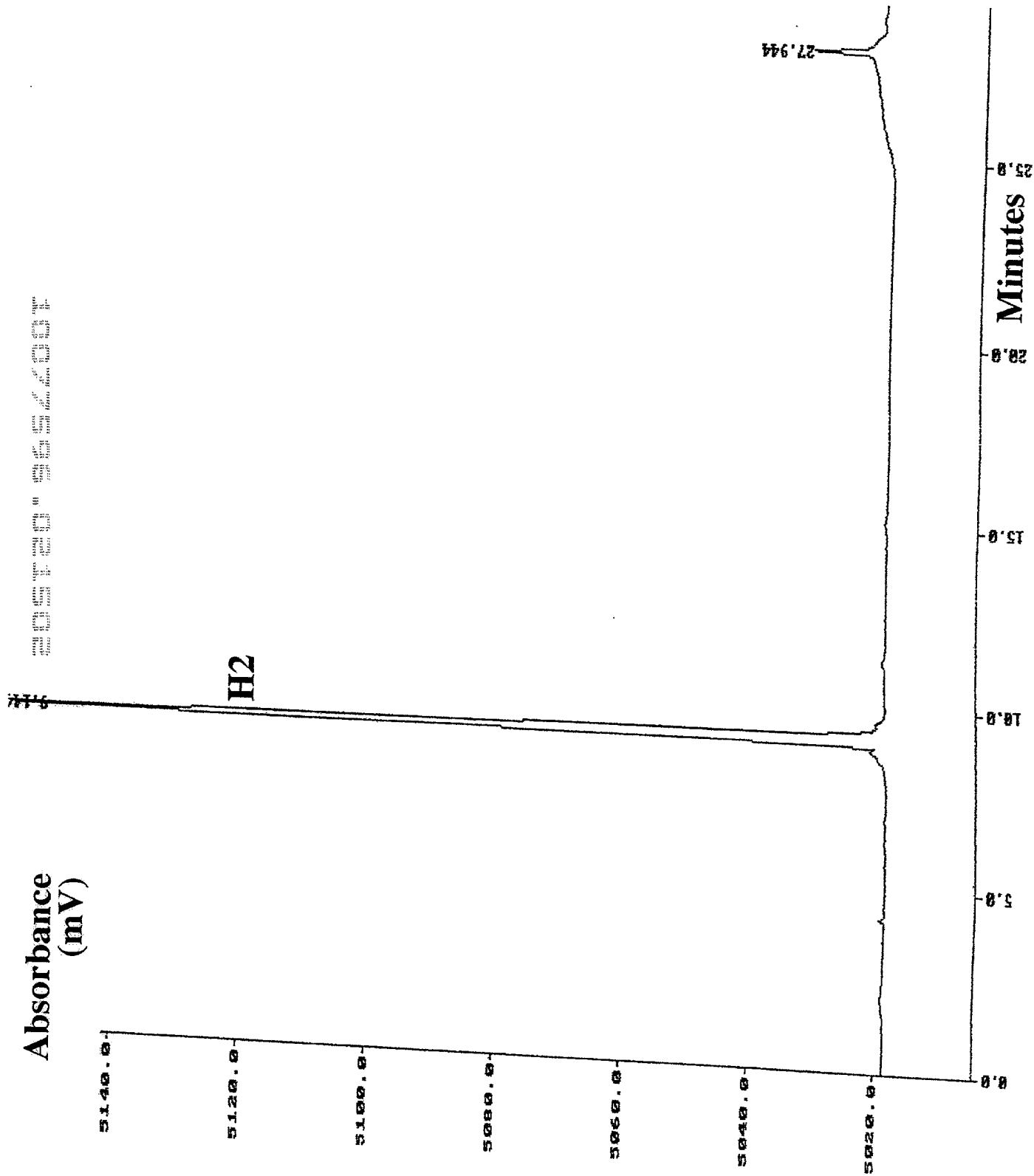


FIGURE 5

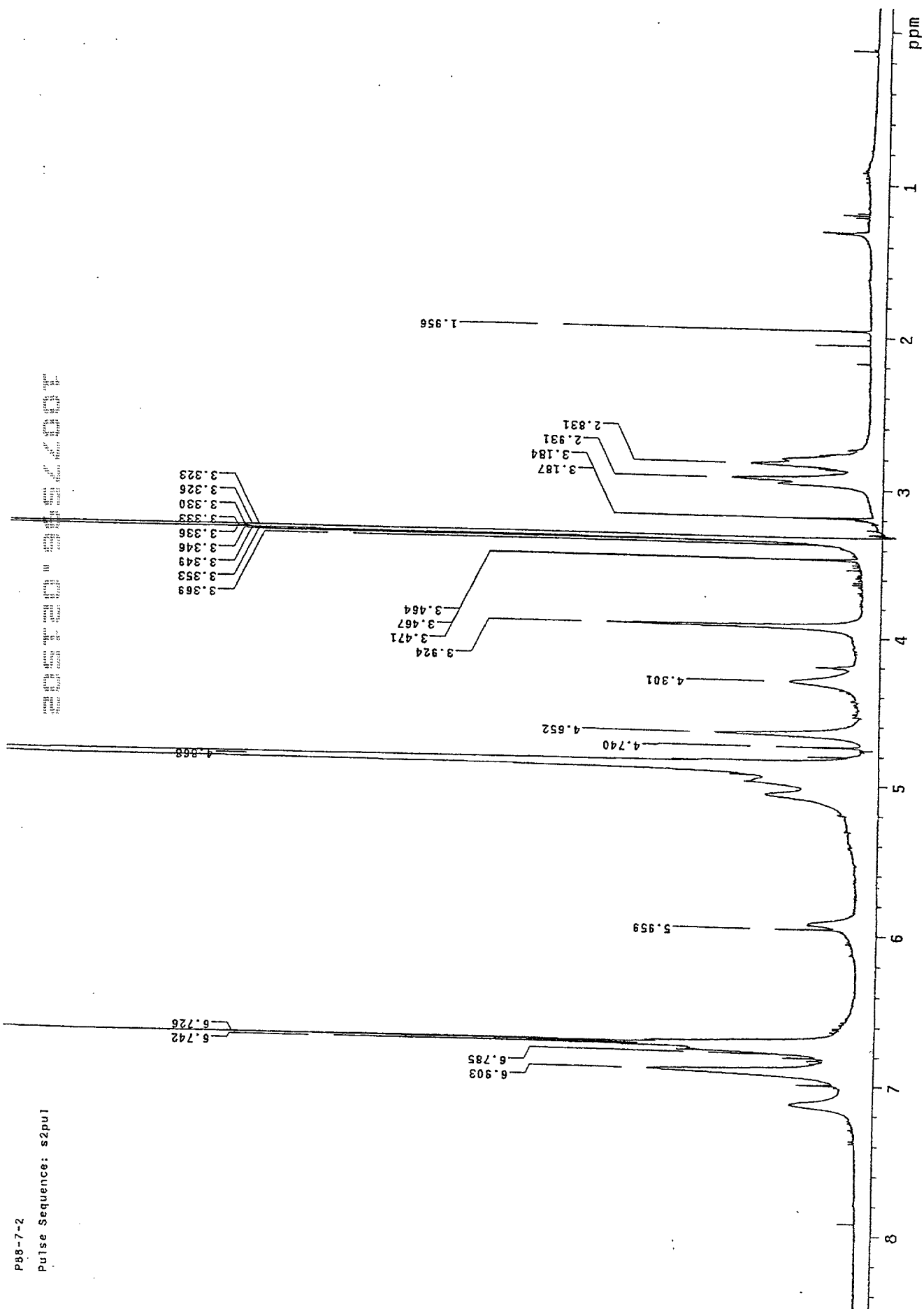
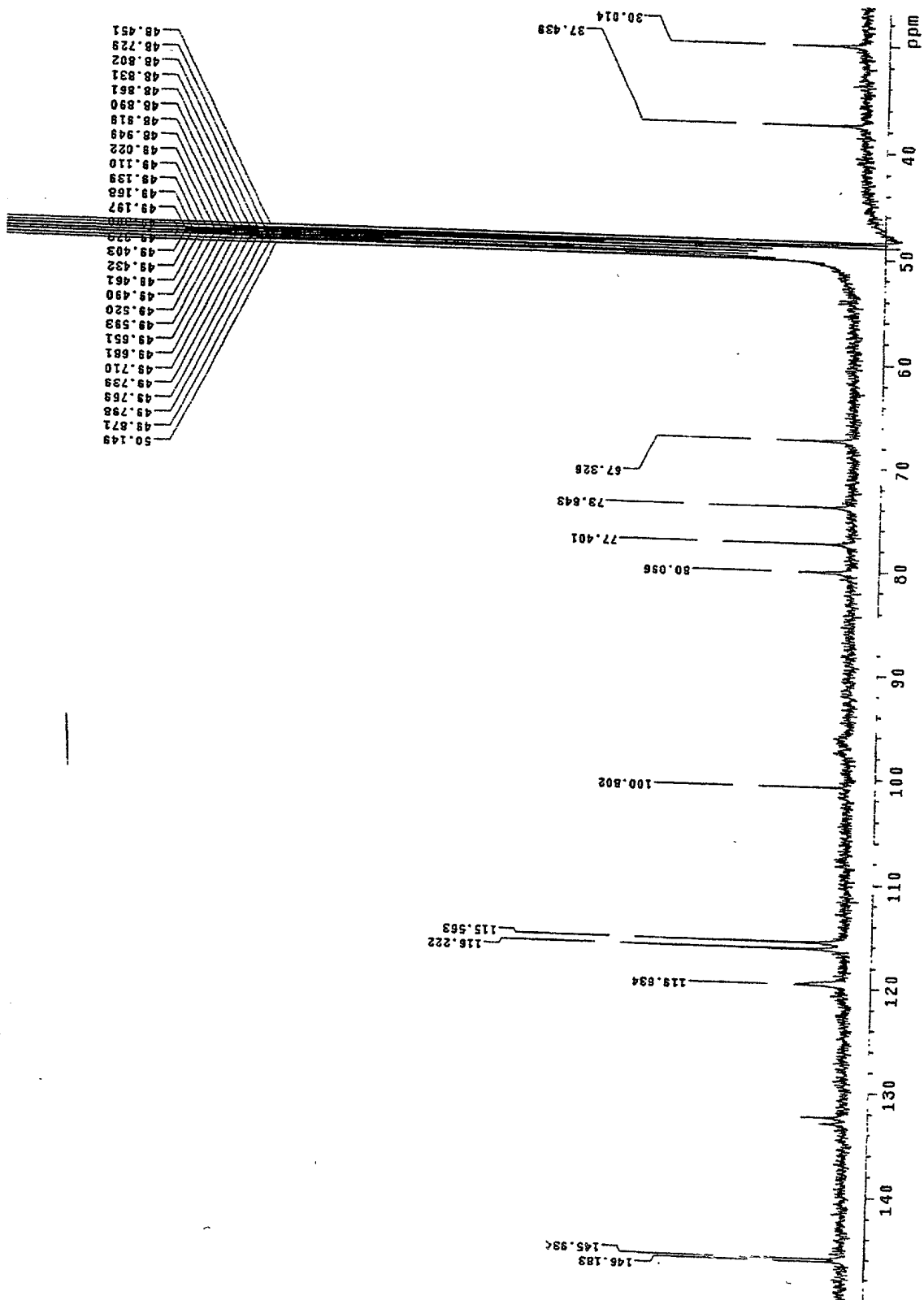


FIGURE 6

FIGURE 7



Pulse Sequence: s2pu1

Solvent: Acetone
Temp: 25.0 C / 298.1 K
INOVA-300 "callisto"

Relax. delay 1.000 sec
Pulse 44.0 degrees
Acq. time 2.048 sec
Width 4000.0 Hz
32 repetitions
OBSERVE H1, 299.9001792 MHz
DATA PROCESSING
F1 size 32768
Total time 1 min, 37 sec

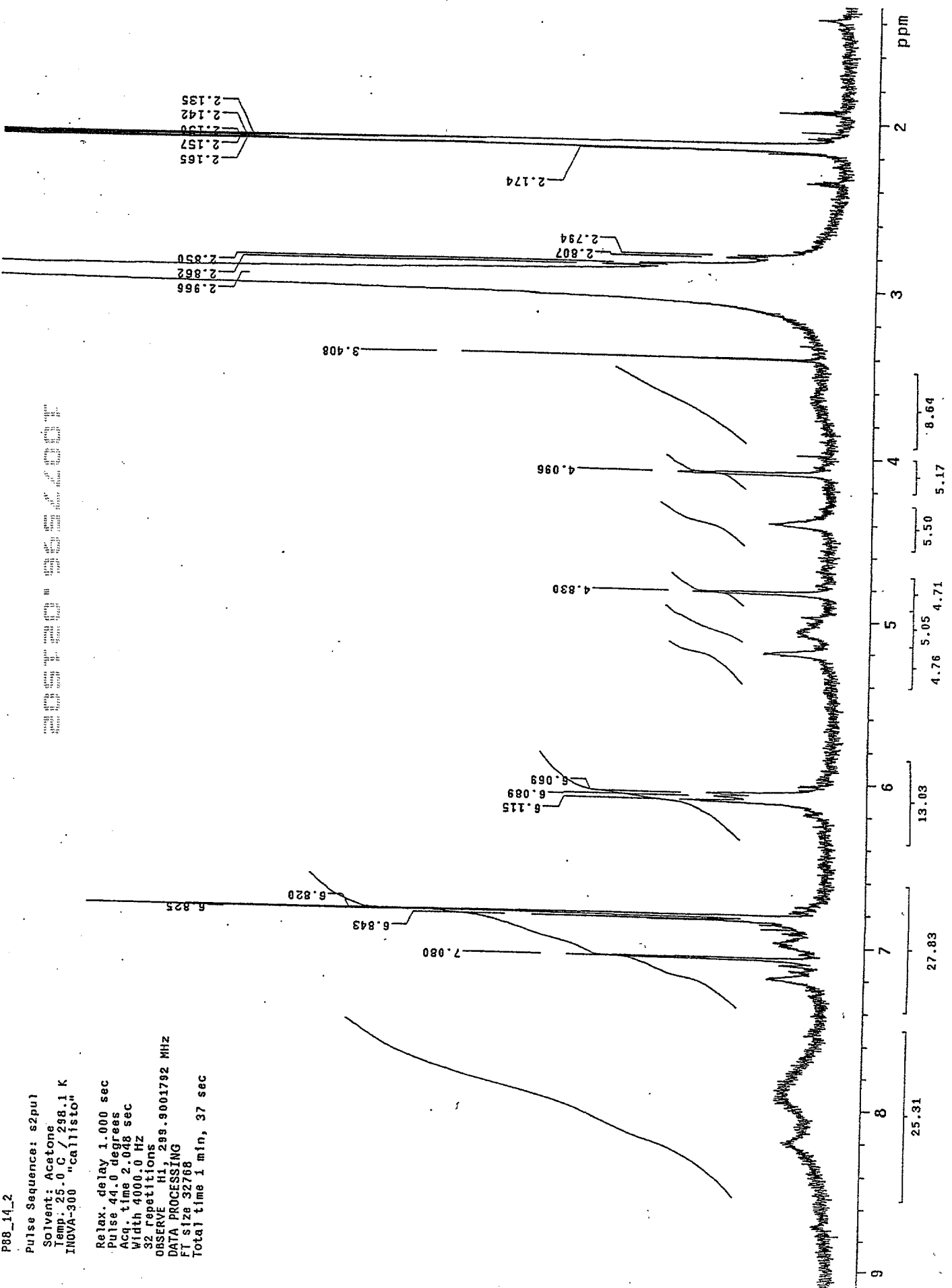
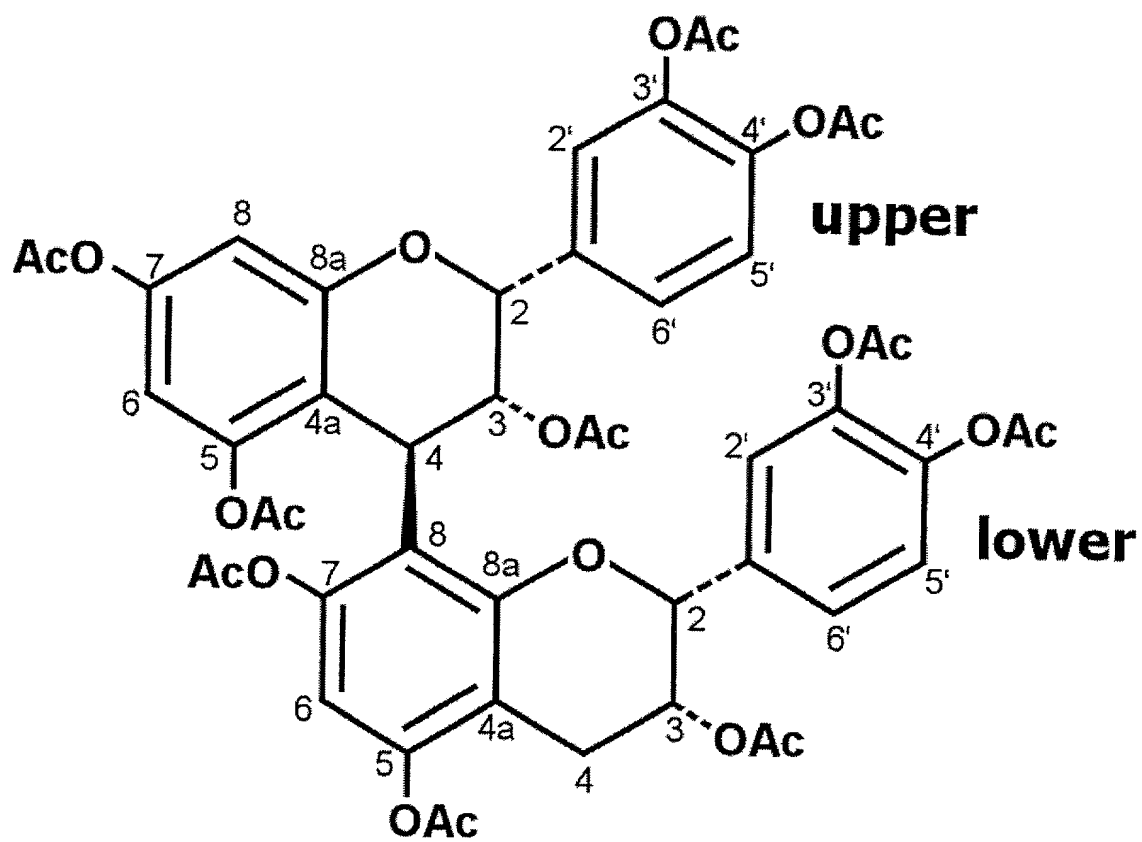
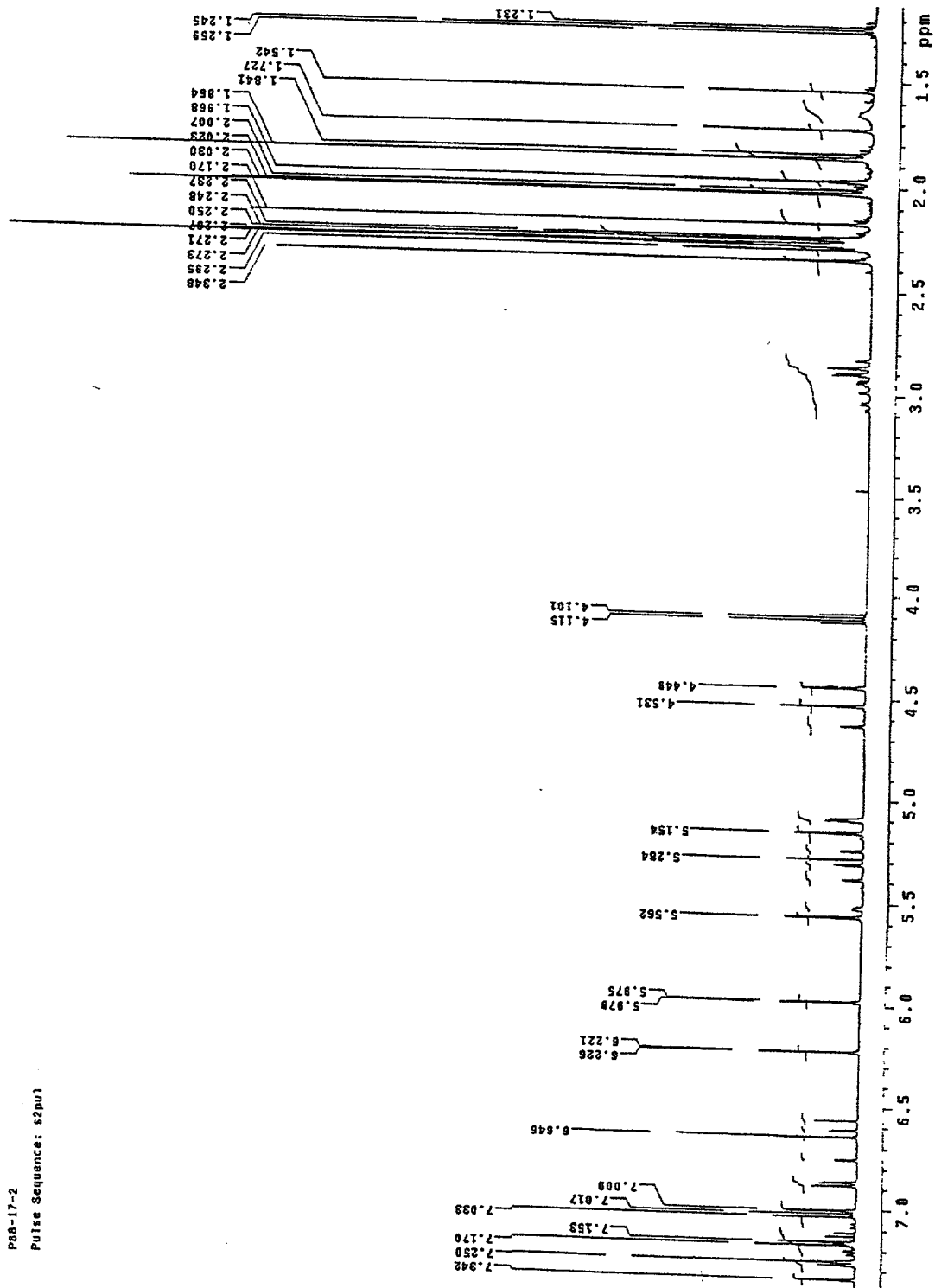


FIGURE 9



— FIGURE 10 —

P08-17-2
Pulse Sequence: s2pul



NMR 8. ¹H NMR spectrum of H₂ peracetate (3) in CDCl₃.

FIGURE 11

P88-17-2
Pulse Sequence: s2pu1

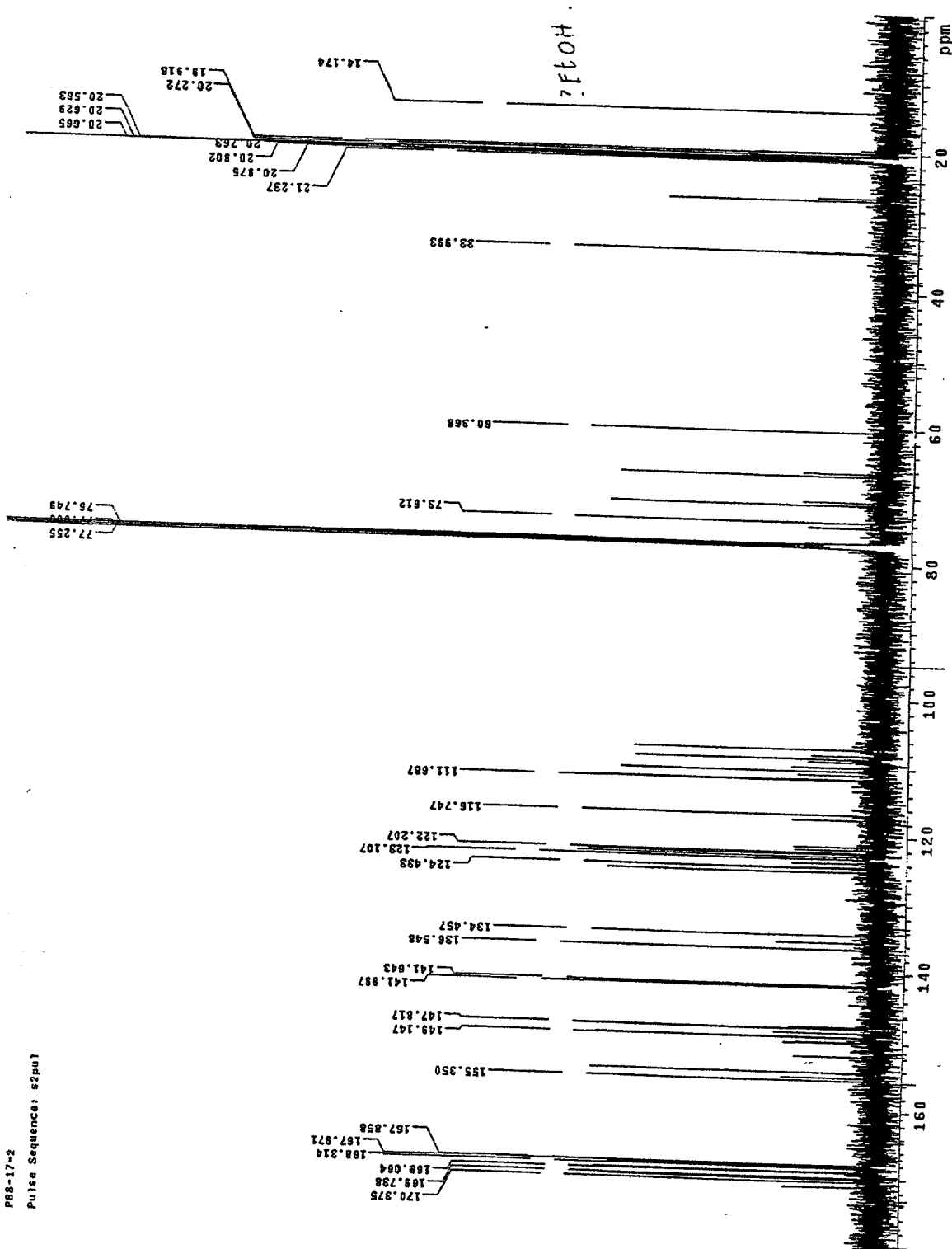


FIGURE 18

P88-17-2

Pulse Sequence: CIGAR

Solvent: CDCl₃

Temp: 25.0 C / 298.1 K

User: 1-14-87

INNOVA-500 "EUROPA"

Relax. delay 1.000 sec

Acq. time 0.241 sec

Width 4247.8 Hz

2D Width 22618.0 Hz

32 repetitions

400 increments

OBSERVE F1 439.7581575 MHz

DATA PROCESSING

Phase shift 0.121 sec

Sine bell 0.121 sec

F1 DATA PROCESSING

Gauss apodization 0.018 sec

Sine bell 0.018 sec

FT size 2048 x 8192

Total time 4 hr, 57 min, 38 sec

NMR 12 CIGAR ¹H - ¹³C correlation spectrum of H2 peracetate (3).

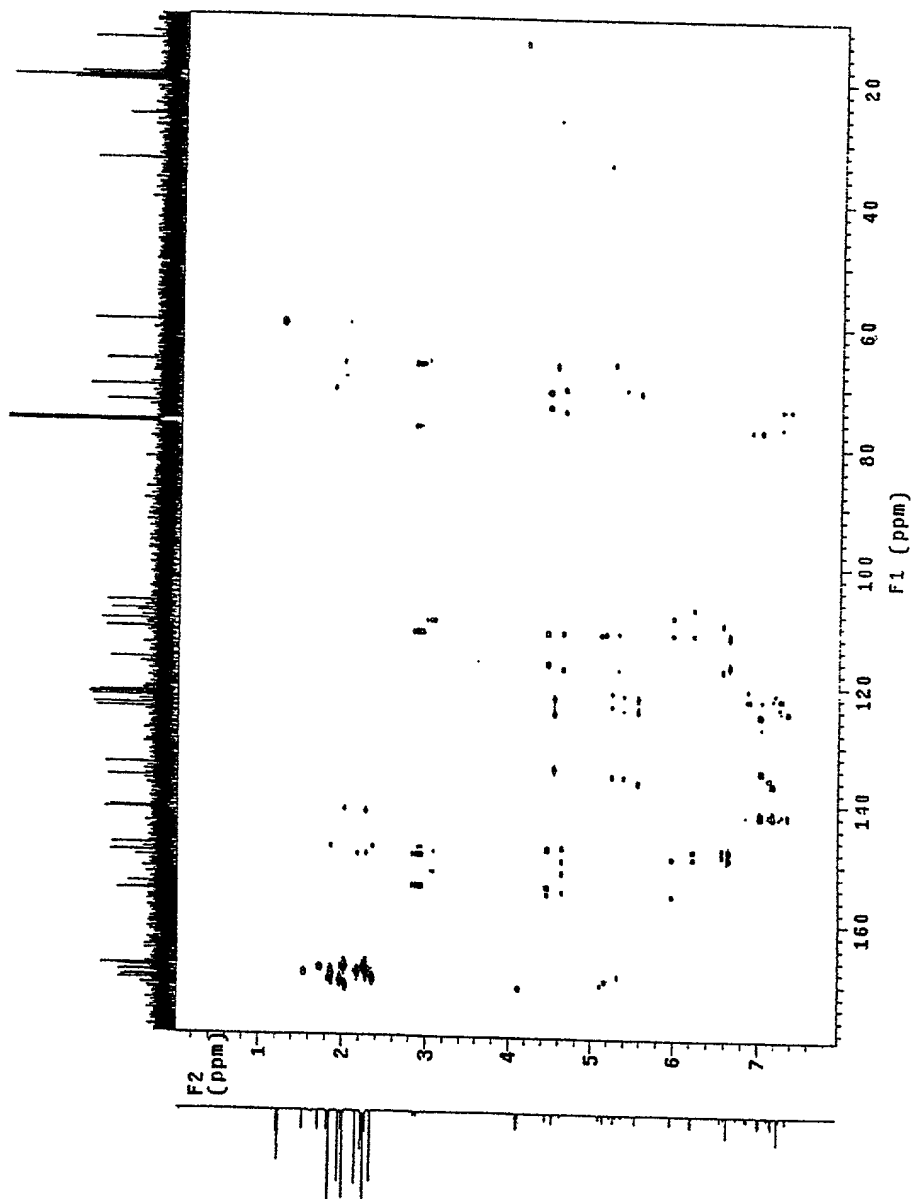


FIGURE 13

```

P85-17-2
Pulse Sequence: CIGAR
Solvent: CDC13
Temp: 25.0 C / 248.1 K
File: P85_17-2_cigar
WORKSTATION "garynede"
PULSE SEQUENCE: CIGAR
AcqIn: 16000
AcqIn: 16000 sec
Width: 22.000 sec
Width: 22.000 sec
2D width 22618.0 Hz
32 repetitions
400 increments
OBSERVE: 41.499.738157
DATA PROCESSING
Gauss apodization 0.121
Line 0: PROCESSING
Line 1: PROCESSING
Gauss apodization 0.018
Sine bell 0.018 sec
F2 size 2048 x 8192
Total time 4 hr, 57 min,

```

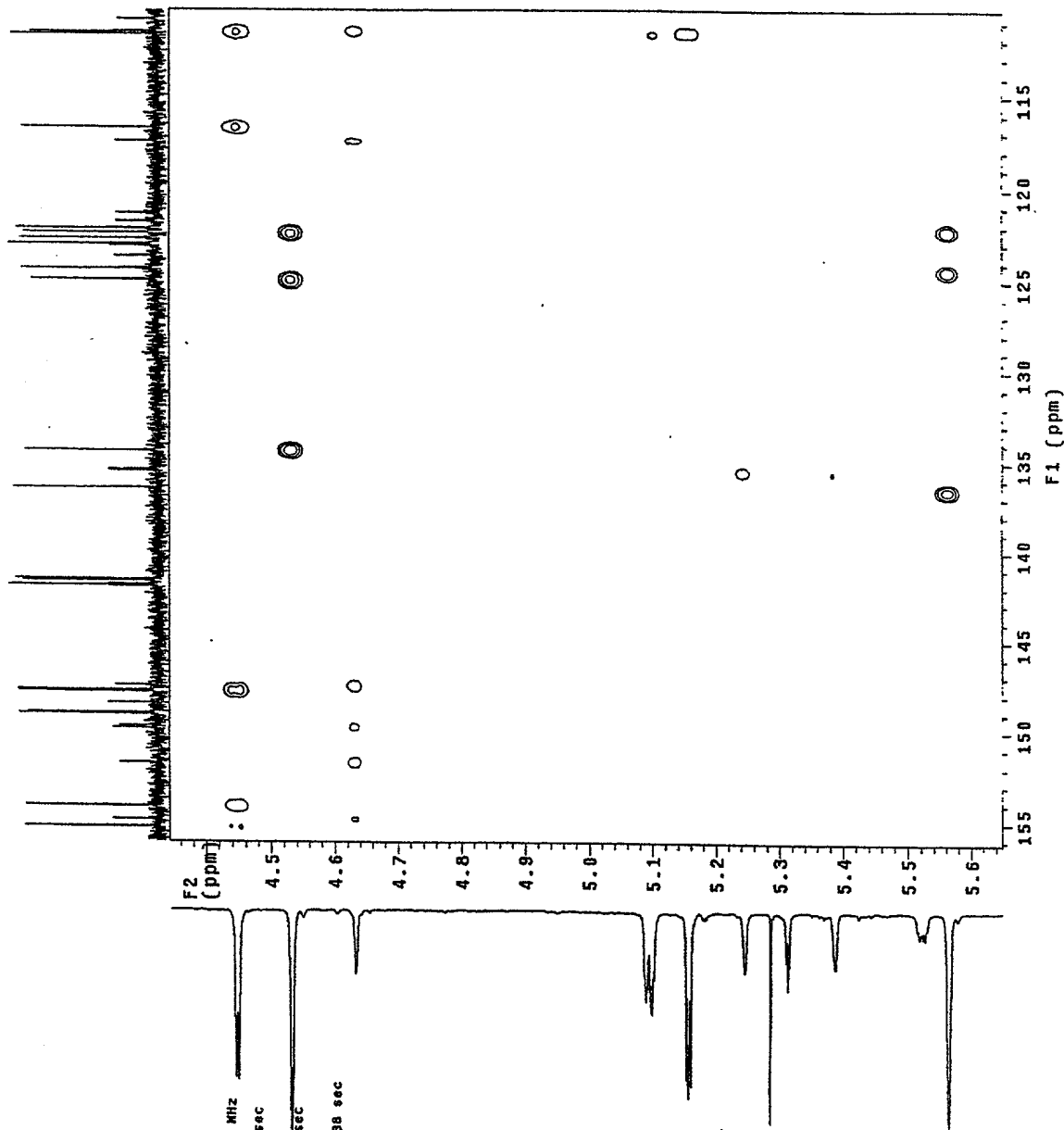


FIGURE 14

NMR 14 NOESY Correlation spectrum of H2 peracetate (3).

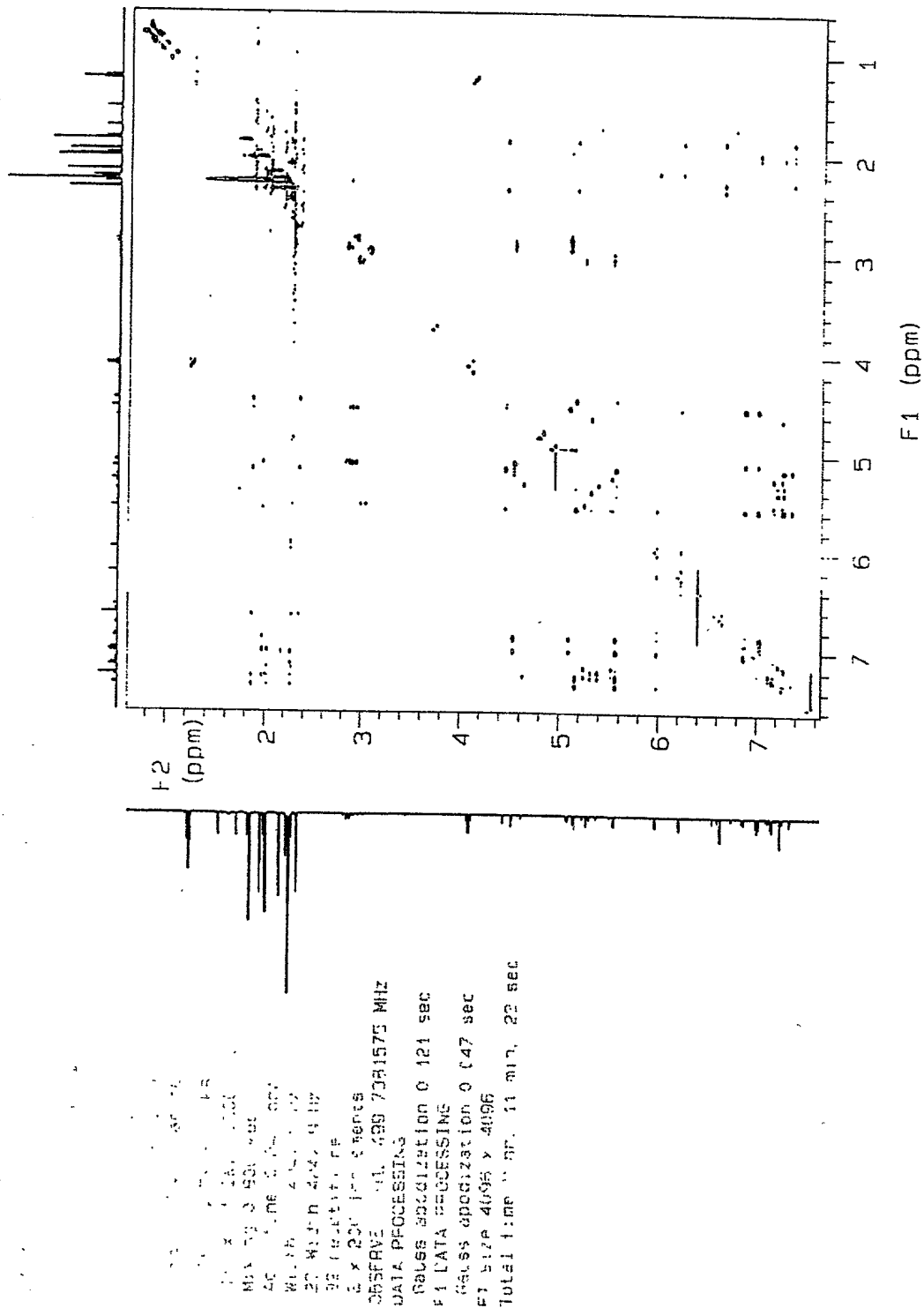


FIGURE 15

P88-17-2

Pulse Sequence: NOESY

Solvent: CDC13
Temp. 25.0 C / 298.1 K
File: P88_17_2_noesy8
WORKSTATION "ganymede"

PULSE SEQUENCE: NOESY
Relax. delay 1.500 sec
Mixing 0.800 sec
Acq. time 0.241 sec
Width 4247.9 Hz
2D Width 4247.9 Hz
32 repetitions

2 x 200 increments
OBSERVE H1, 499.7381575 MHz
DATA PROCESSING
Gauss apodization 0.121 sec
F1 DATA PROCESSING
Gauss apodization 0.047 sec
FT size 4096 x 4096
Total time 9 hr, 11 min, 23 sec

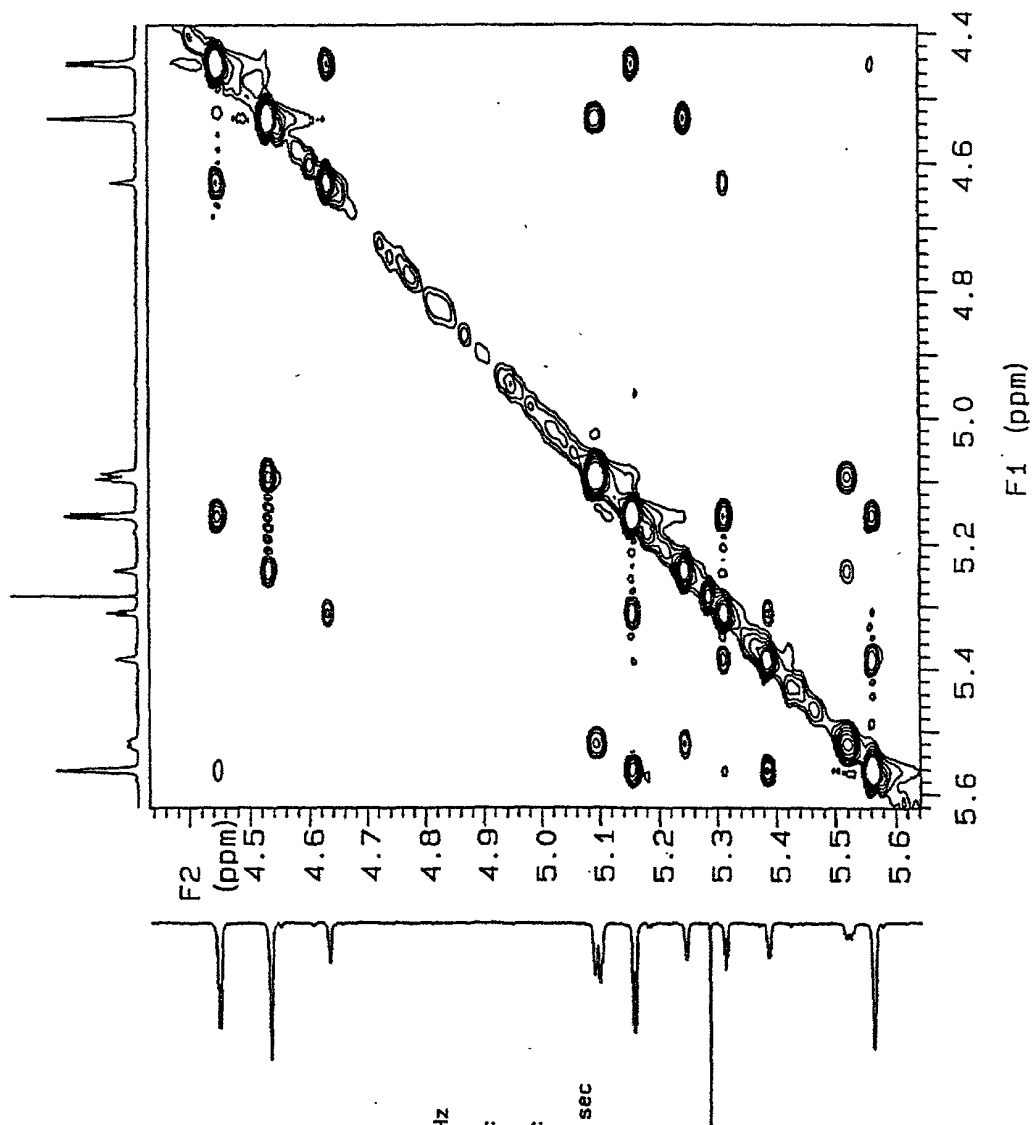


FIGURE 16

P88-17-2

Pulse Sequence: NOESY

Solvent: CDC13
Temp. 25.0 C / 298.1 K
File: P88_17_2_noesy8
WORKSTATION "ganymede"

PULSE SEQUENCE: NOESY
Relax. delay 1.500 sec
Mixing 0.800 sec
Acq. time 0.241 sec
Width 4247.9 Hz
2D Width 4247.9 Hz
32 repetitions
2 x 200 increments
OBSERVE H1, 499.7381575 MHz
DATA PROCESSING
Gauss apodization 0.121 sec
F1 DATA PROCESSING
Gauss apodization 0.047 sec
F1 size 4096 x 4096
Total time 9 hr. 11 min. 23 sec

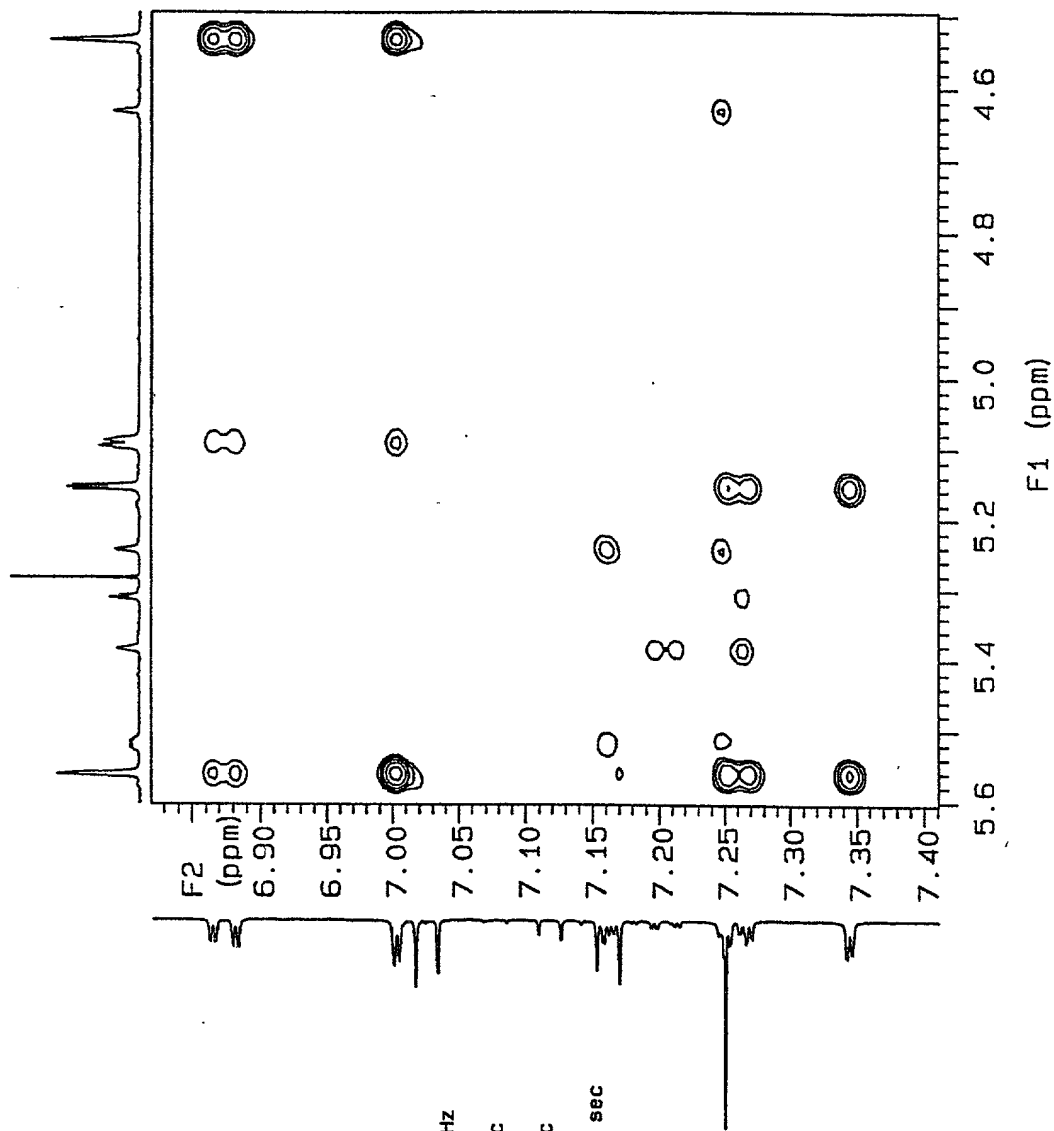
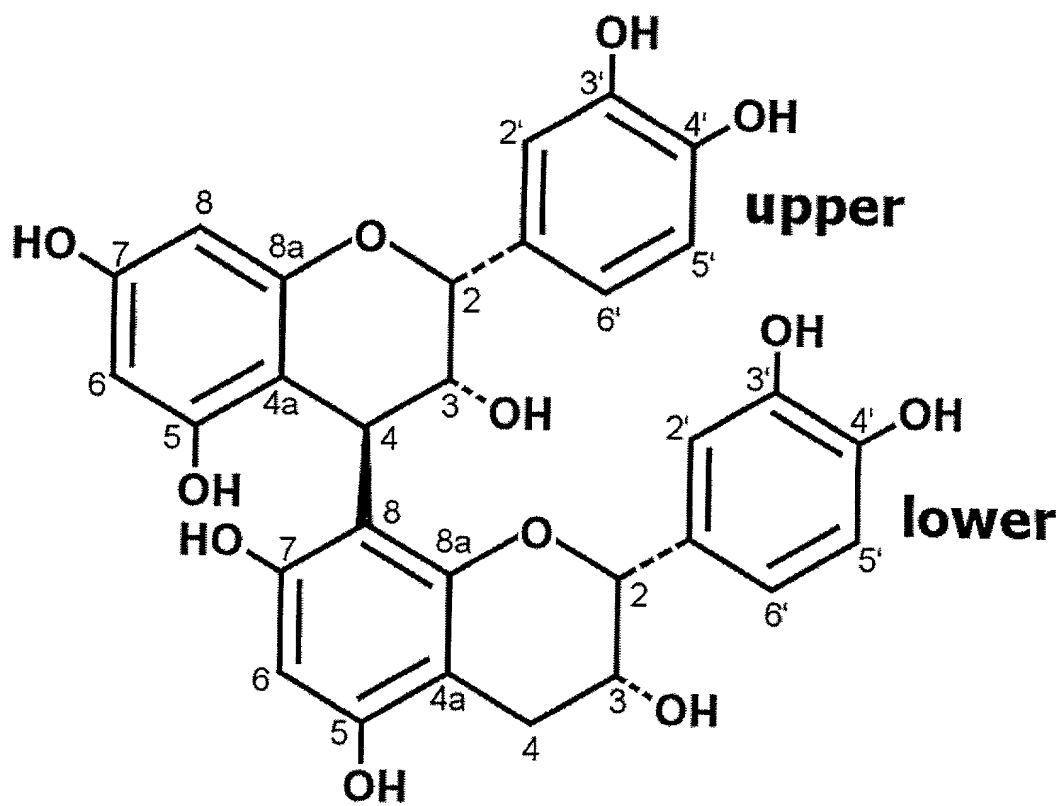


FIGURE 17



— FIGURE 18 —

100% TMS, CDCl₃, 25°C, 400 MHz, 1H NMR spectrum of compound 19.

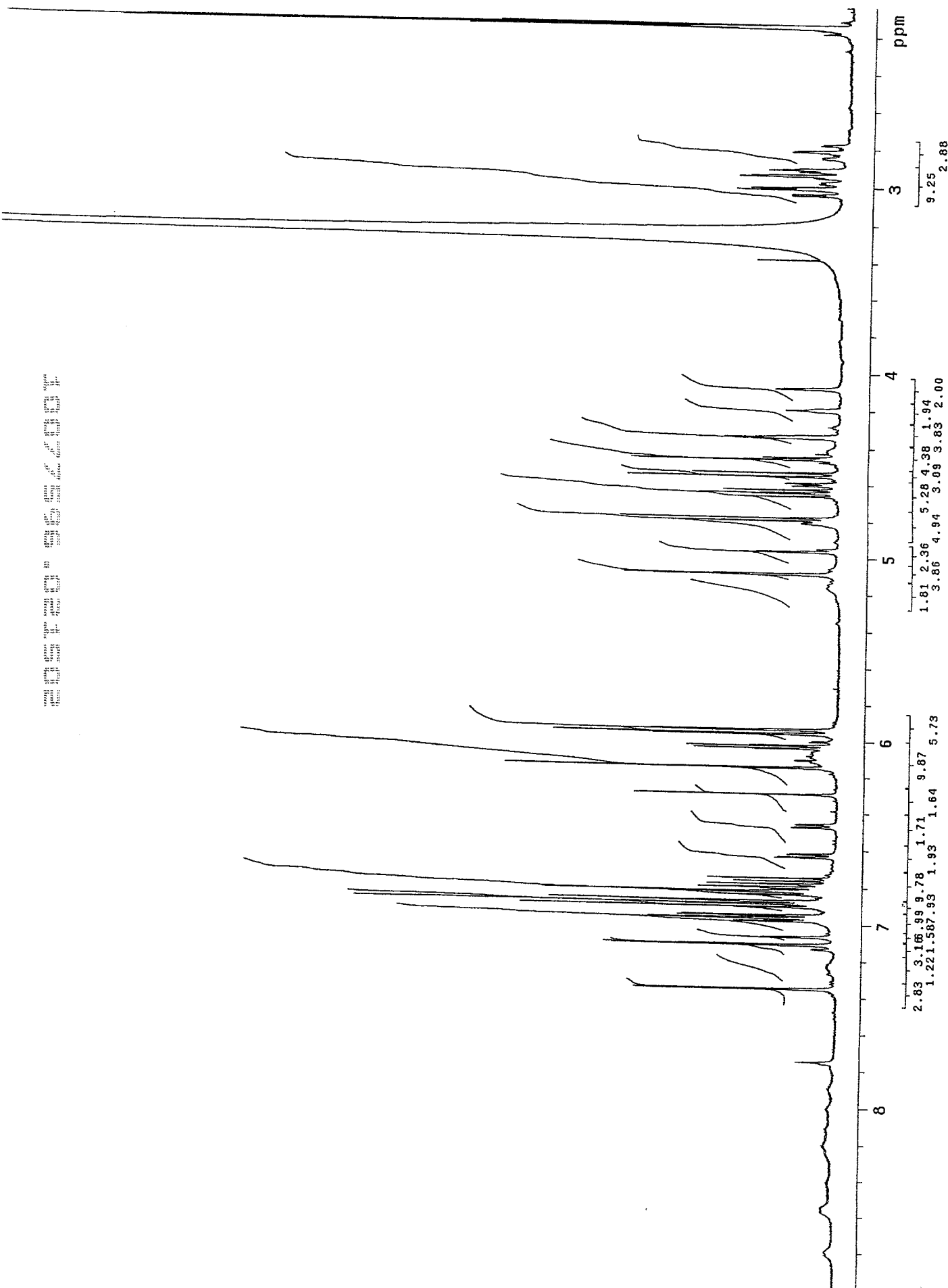


FIGURE 19

Year	Country	Population (millions)	Urban population (millions)	Urban population (%)	Population growth rate (%)	Urban population growth rate (%)	Population density (per sq km)	Urban population density (per sq km)
1950	United States	150	80	53	1.8	2.2	20	100
1950	France	45	25	56	1.2	1.5	100	150
1950	Germany	55	35	64	1.0	1.2	150	200
1950	Japan	80	40	50	1.5	2.0	300	400
1950	India	360	60	17	1.8	2.0	10	20
1950	China	550	100	18	1.5	2.0	10	20
1950	U.S.S.R.	160	80	50	1.0	1.2	10	20
1950	Canada	25	15	60	1.2	1.5	20	100
1950	Italy	45	25	56	1.2	1.5	100	150
1950	Spain	25	10	40	1.0	1.2	100	150
1950	Sweden	8	4	50	1.0	1.2	100	150
1950	Norway	3	1.5	50	1.0	1.2	100	150
1950	Denmark	2	1	50	1.0	1.2	100	150
1950	Netherlands	16	8	50	1.0	1.2	100	150
1950	Belgium	9	4.5	50	1.0	1.2	100	150
1950	Switzerland	2.5	1.25	50	1.0	1.2	100	150
1950	Austria	7	3.5	50	1.0	1.2	100	150
1950	Portugal	10	3	30	1.0	1.2	100	150
1950	Greece	7	2	29	1.0	1.2	100	150
1950	Turkey	15	3	20	1.0	1.2	100	150
1950	Iran	20	4	20	1.0	1.2	100	150
1950	China	550	100	18	1.5	2.0	10	20
1950	India	360	60	17	1.8	2.0	10	20
1950	U.S.S.R.	160	80	50	1.0	1.2	10	20
1950	Canada	25	15	60	1.2	1.5	20	100
1950	Italy	45	25	56	1.2	1.5	100	150
1950	Spain	25	10	40	1.0	1.2	100	150
1950	Sweden	8	4	50	1.0	1.2	100	150
1950	Norway	3	1.5	50	1.0	1.2	100	150
1950	Denmark	2	1	50	1.0	1.2	100	150
1950	Netherlands	16	8	50	1.0	1.2	100	150
1950	Belgium	9	4.5	50	1.0	1.2	100	150
1950	Switzerland	2.5	1.25	50	1.0	1.2	100	150
1950	Austria	7	3.5	50	1.0	1.2	100	150
1950	Portugal	10	3	30	1.0	1.2	100	150
1950	Greece	7	2	29	1.0	1.2	100	150
1950	Turkey	15	3	20	1.0	1.2	100	150
1950	Iran	20	4	20	1.0	1.2	100	150

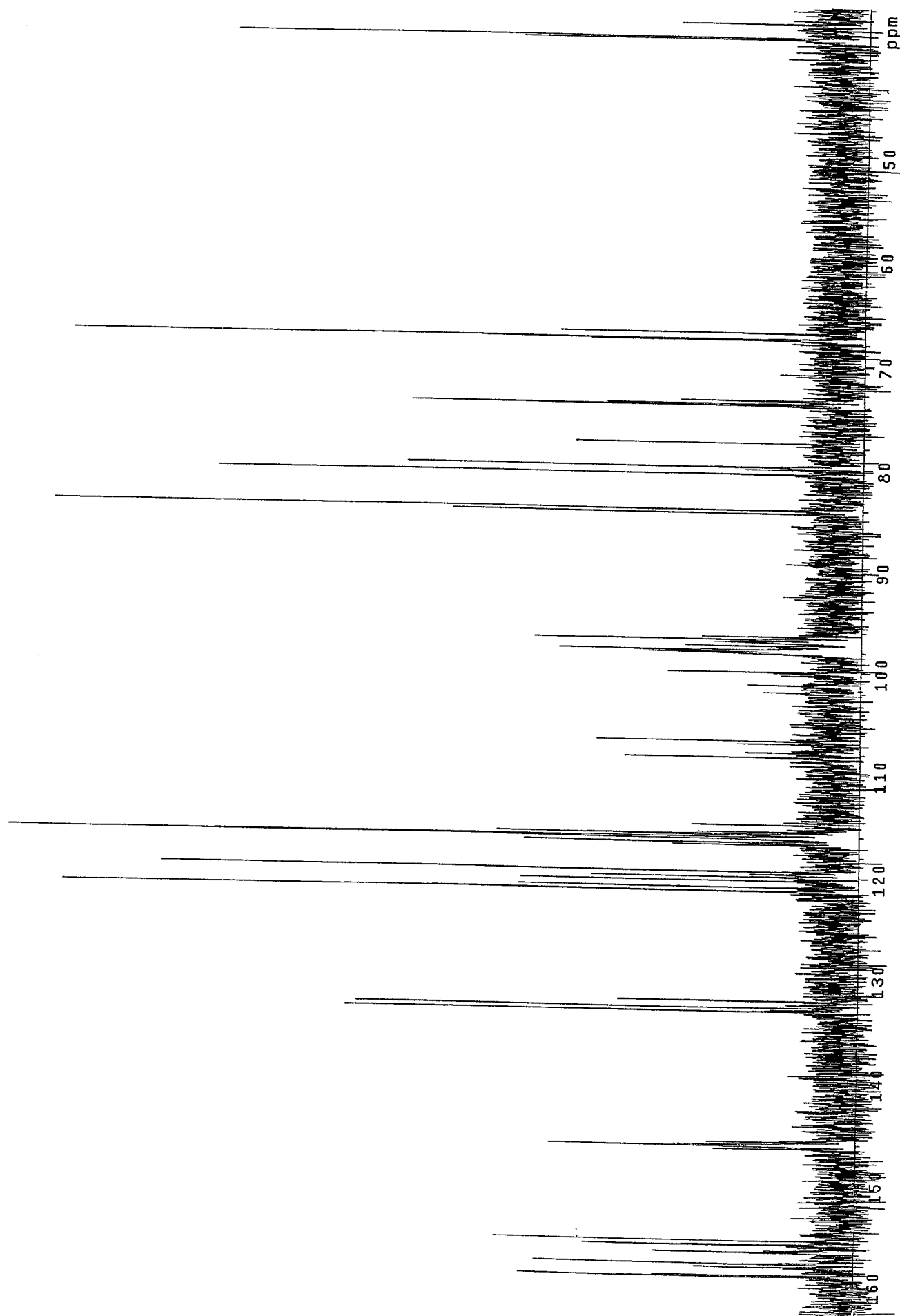
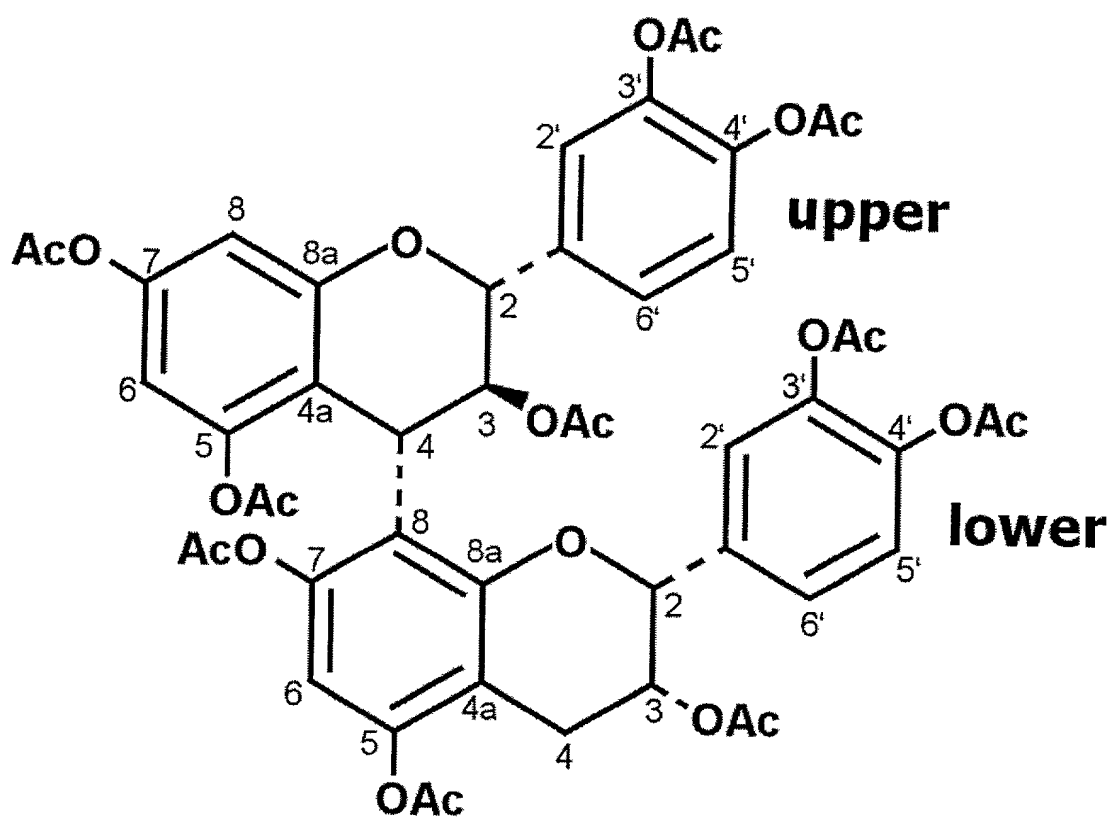


FIGURE 20



— FIGURE 21 —



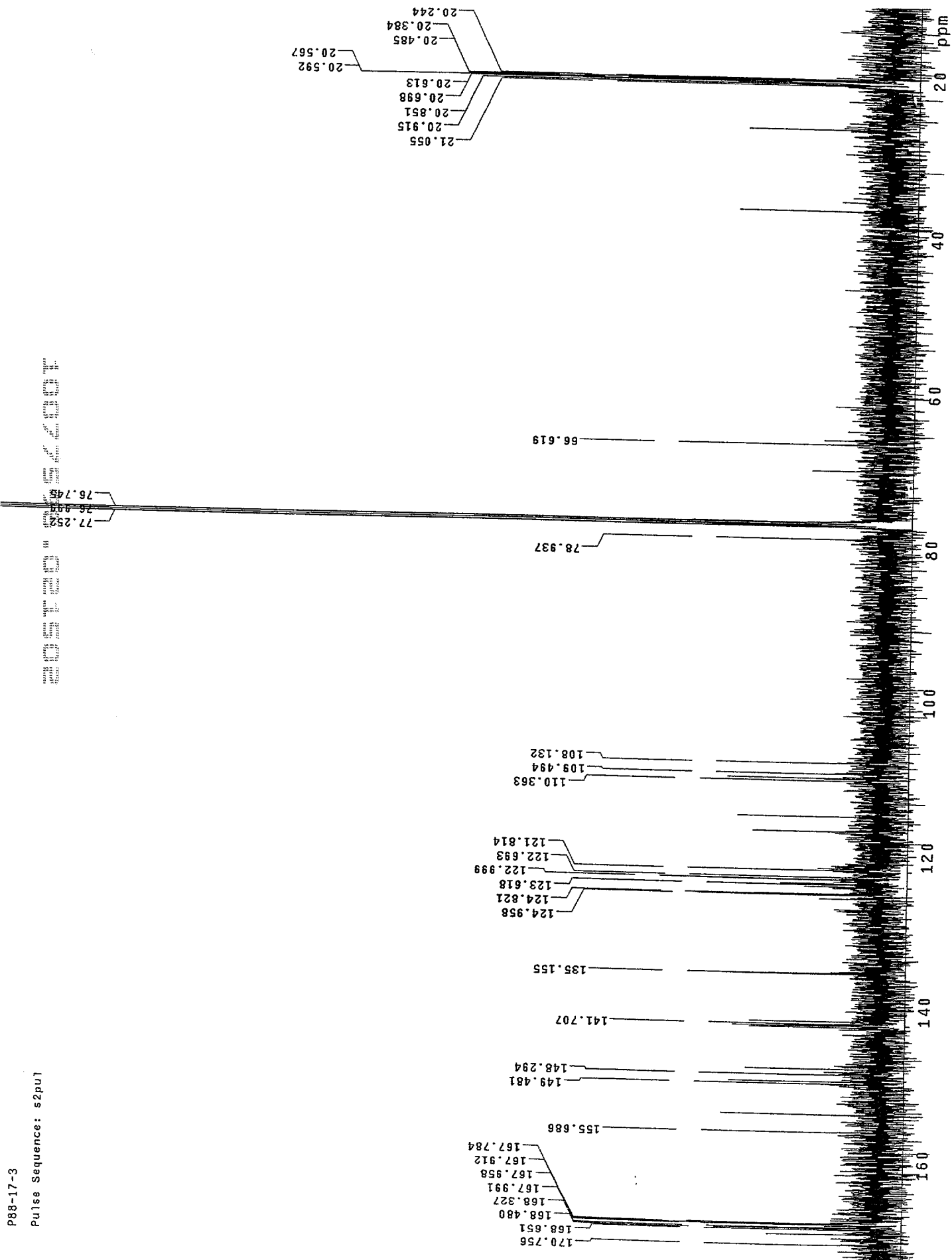


FIGURE 23

Pulse Sequence: CIGAR

Solvent: CDCl₃
 Temp. 25.0 C / 298.1 K
 User: 1-14-87
 INOVA-500 "europa"

Relax. delay 1.000 sec
 Acq. time 0.205 sec
 Width 4997.5 Hz
 2D Width 25133.5 Hz
 64 repetitions
 256 increments
 OBSERVE H1, 499.7381559 MHz
 DATA PROCESSING
 Gauss apodization 0.102 sec
 Sine bell 0.102 sec
 F1 DATA PROCESSING
 Gauss apodization 0.016 sec
 Sine bell 0.007 sec
 FT size 2048 x 4096
 Total time 6 hr, 9 min, 51 sec

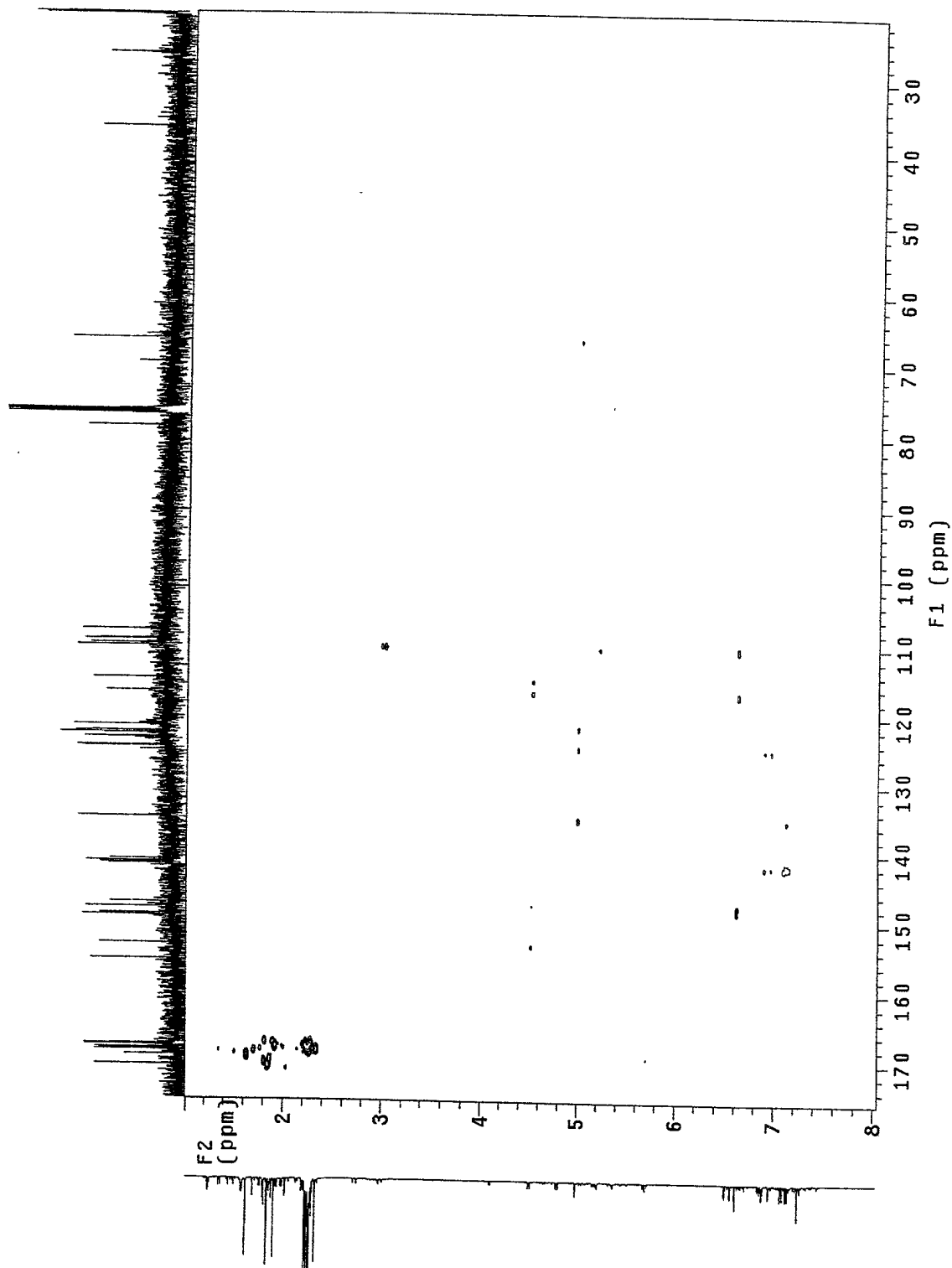


FIGURE 24

P88-17-3

Pulse Sequence: CIGAR

Solvent: CDC13

Temp. 25.0 C / 298.1 K

File: P88_17_3_cigar

WORKSTATION "ganymede"

PULSE SEQUENCE: CIGAR

Relax. delay 1.000 sec

Acq. time 0.205 sec

Width 4997.5 Hz

2D Width 25133.5 Hz

64 repetitions

256 increments

OBSERVE H1, 499.7381559 MHz

DATA PROCESSING

Gauss apodization 0.102 sec

Sine bell 0.102 sec

F1 DATA PROCESSING

Gauss apodization 0.016 sec

Sine bell 0.007 sec

FT size 2048 x 4096

Total time 6 hr, 9 min, 51 sec

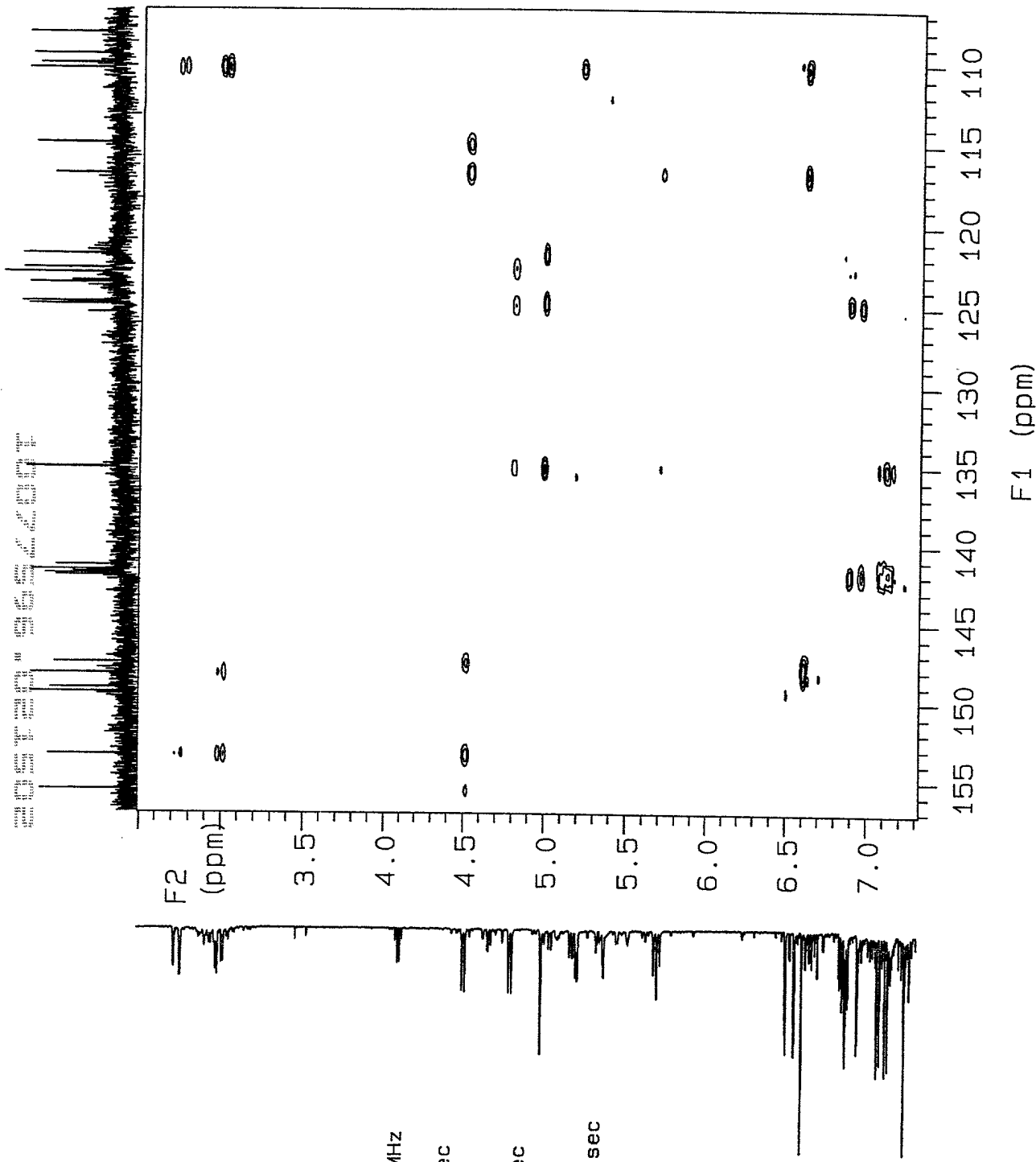
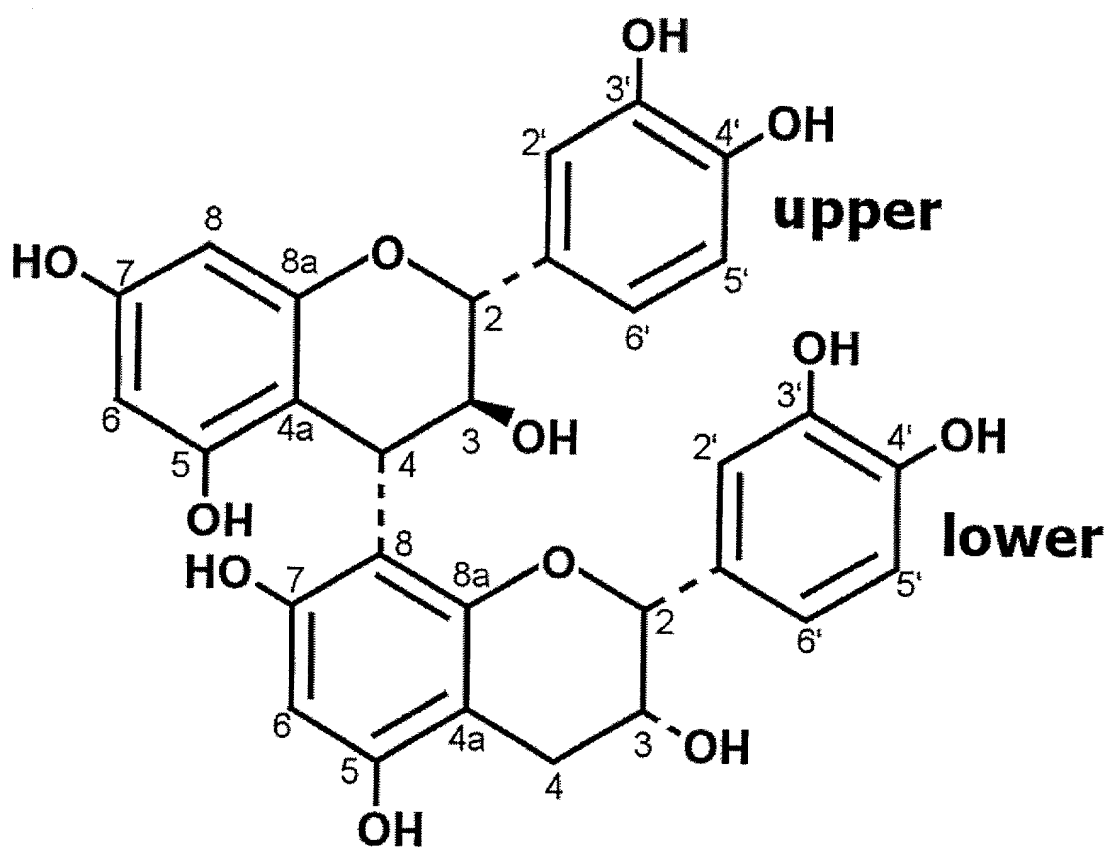
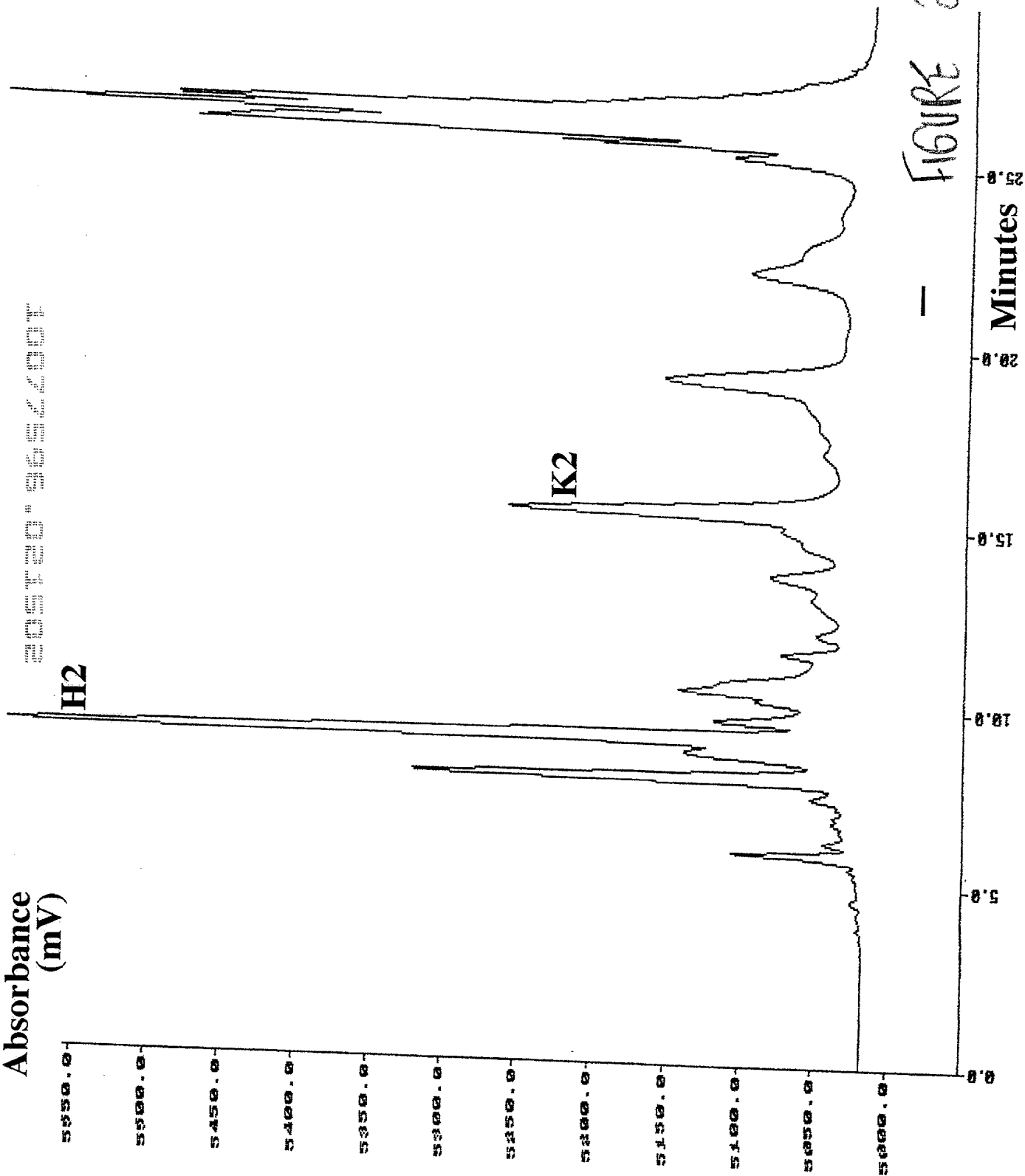


FIGURE 25



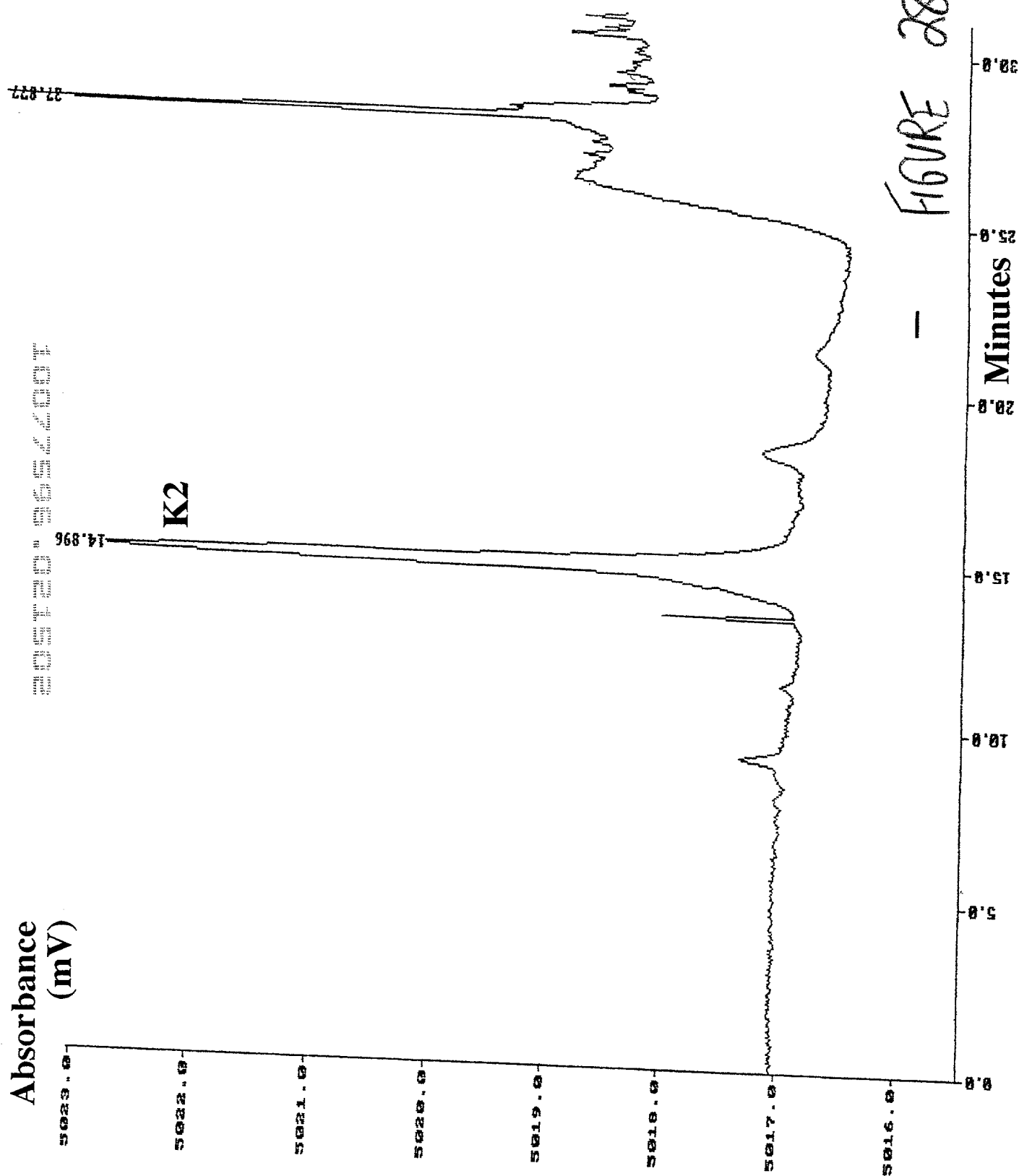
- FIGURE 26 -

Absorbance
(mV)



— FIGURE 27

Absorbance
(mV)



— FIGURE 28

any data from this run may be used for any purpose

88-11-1 100ng INJECTED

-CR10083 27 (0.452)

TOF MS ES-
1.21e3

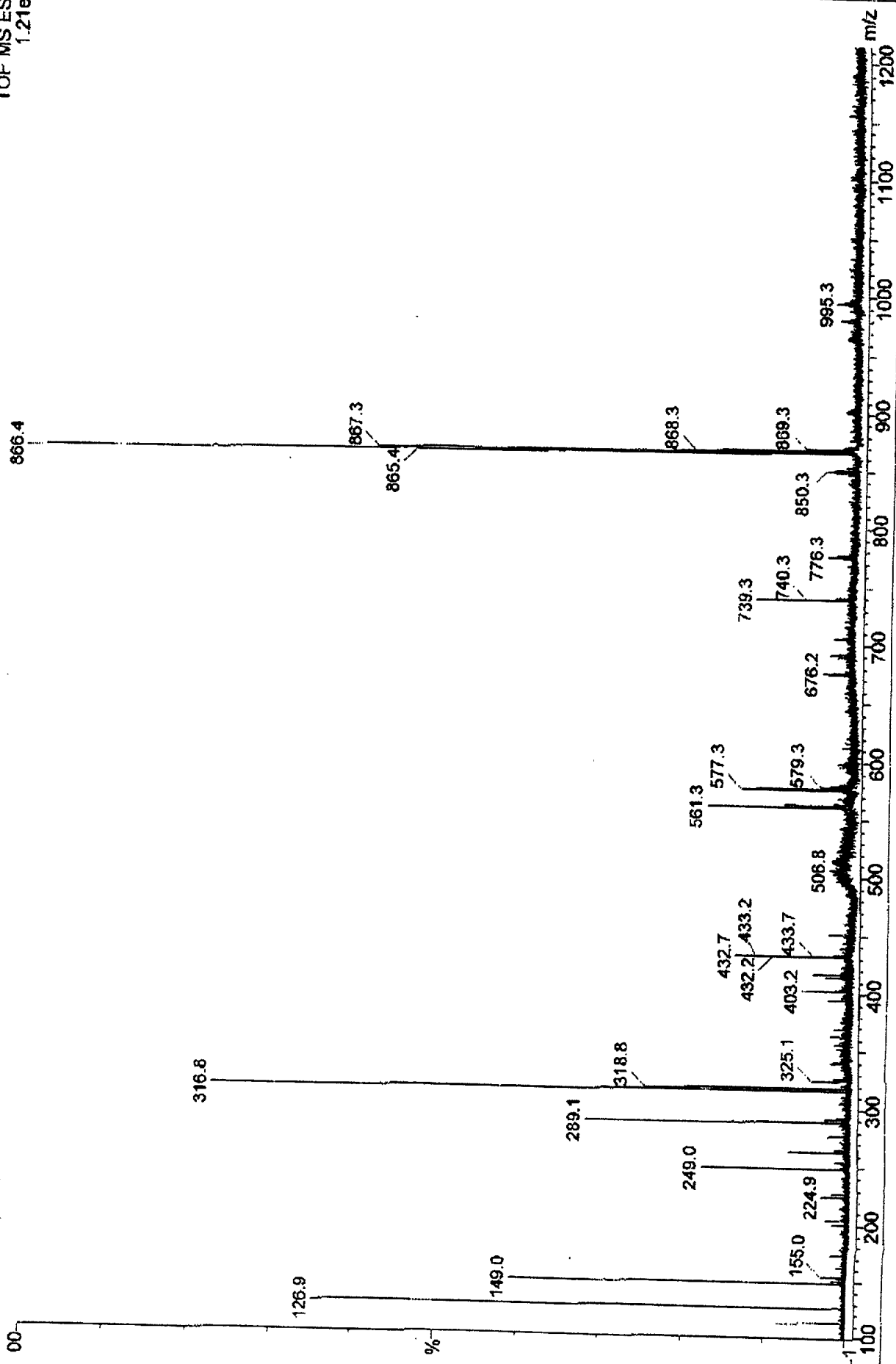


FIGURE 29

P88-16-3
After overnight
Pulse Sequence: s2pul

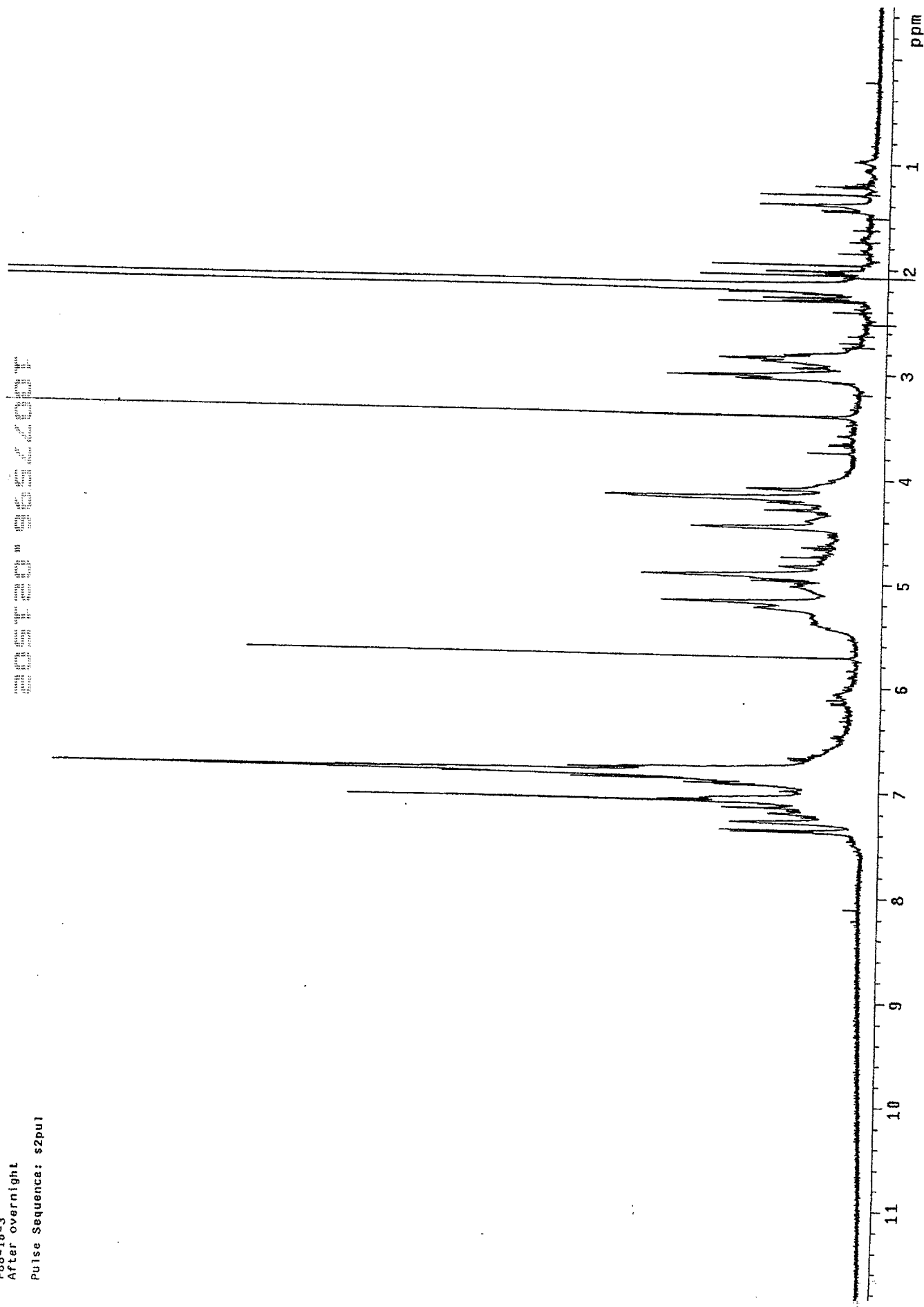


FIGURE 30

P88-22-11

Pulse Sequence: s2put

Solvent: CDC13

Temp. 25.0 C / 298.1 K

INOVA-500 "europa"

Relax. delay 1.000 sec

Pulse 54.0 degrees

Acq. time 3.668 sec

Width 4467.0 Hz

32 repetitions

OBSERVE H1, 499.7381570 MHz

DATA PROCESSING

FT size 65536

Total time 2 min, 29 sec

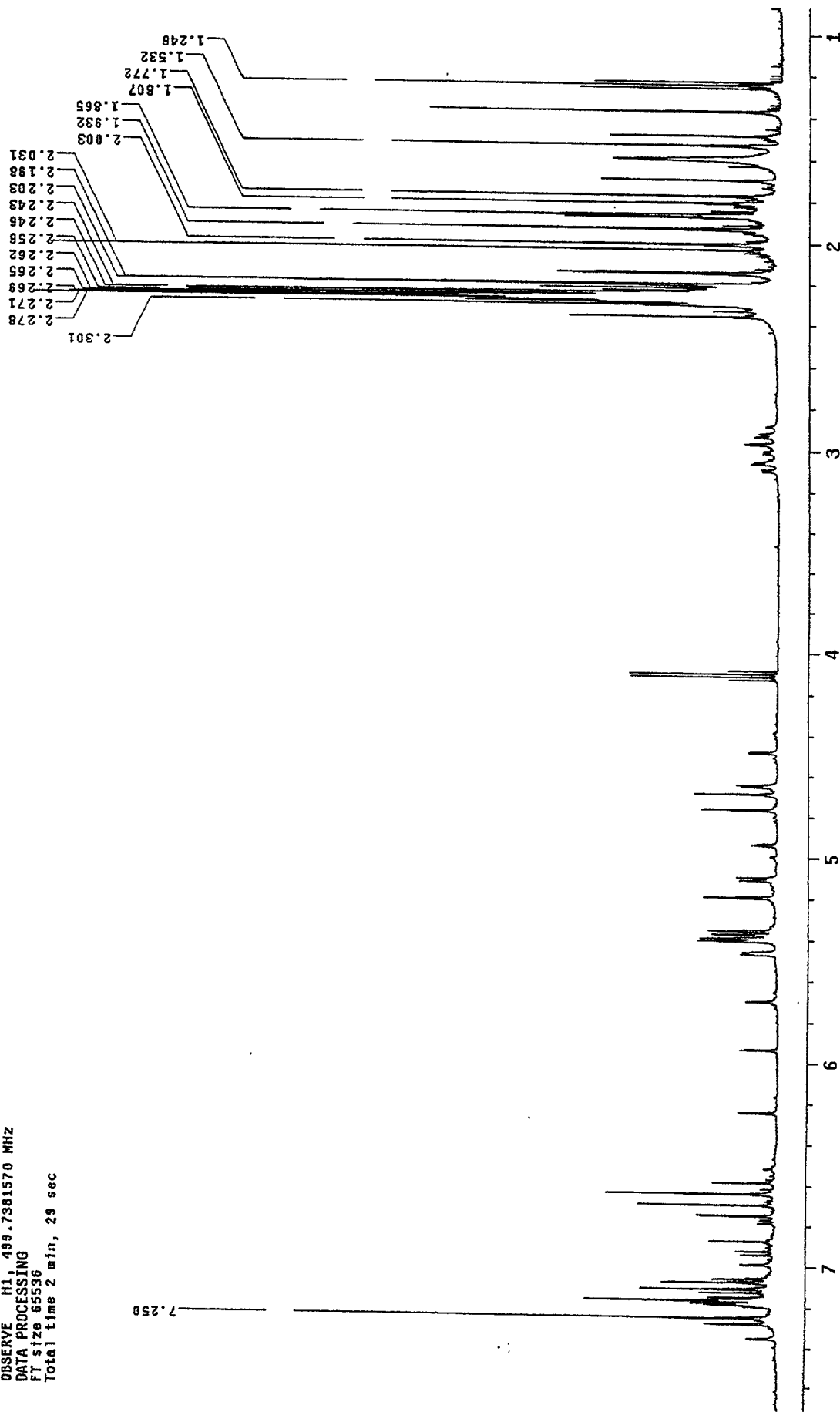


FIGURE 31

P88_22_11

Pulse Sequence: szpu1

Solvent: CDCl₃

Temp. 25.0 C / 298.1 K

User: 1-14-87

INOVA-500 "europa"

Relax. delay 1.500 sec

Pulse 54.0 degrees

Acq. time 1.423 sec

Width 23021.6 Hz

3424 repetitions

OBSERVE C13, 125.6592597 MHz

DECOUPLE H1, 499.7408365 MHz

Power 37 dB

On during acquisition

off during delay

WALTZ-16 modulated

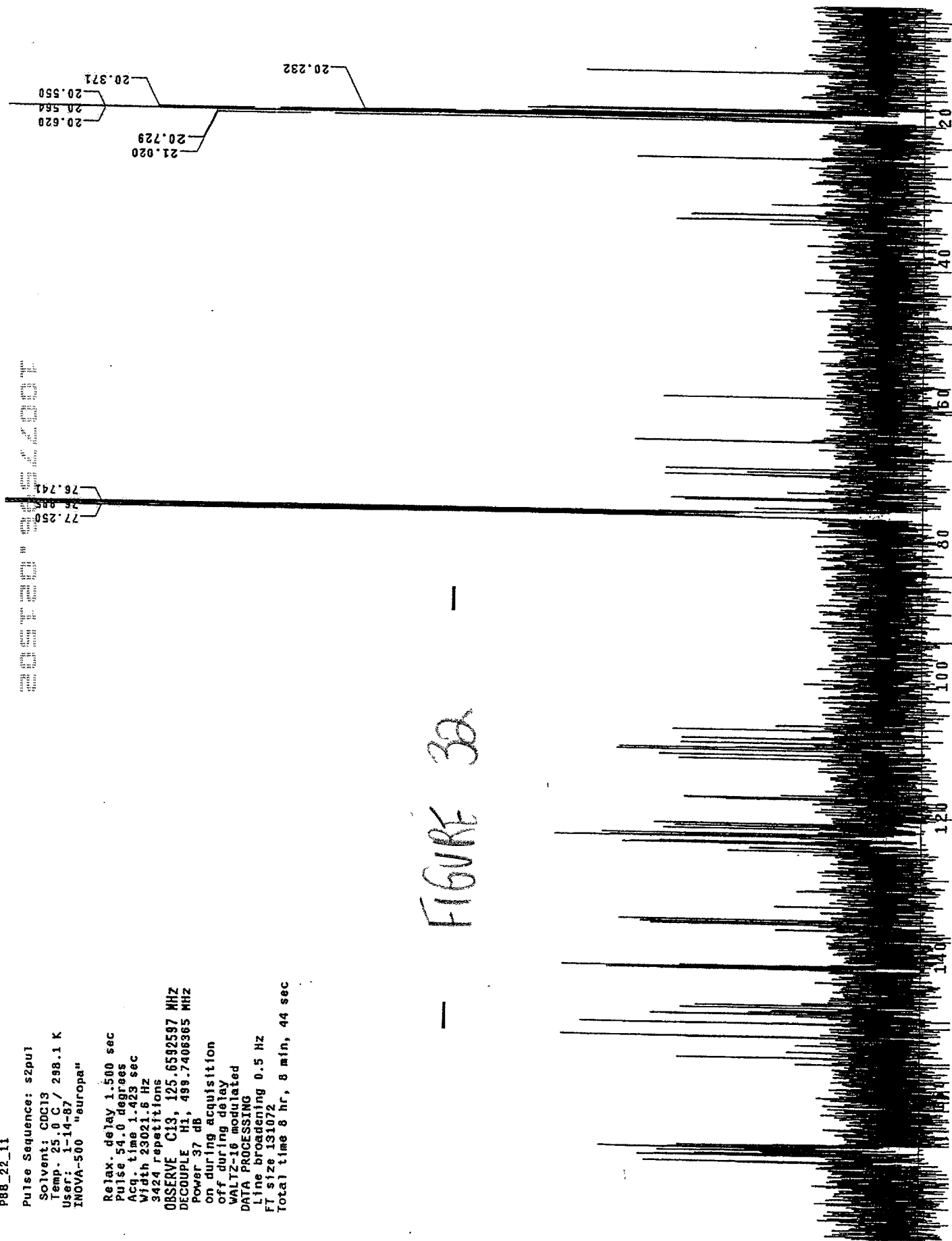
DATA PROCESSING

Line broadening 0.5 Hz

FI size 131072

Total time 8 hr, 8 min, 44 sec

FIGURE 32



Pulse Sequence: CIGAR

Solvent: CDCl₃
Temp. 25.0 C / 298.1 K
User: 1-14-87
INNOVA-500 "europa"

Relax. delay 1.000 sec
Acq. time 0.229 sec
Width 4467.0 Hz
2D Width 23021.6 Hz
32 repetitions
256 increments

OBSERVE F1, 499.7381570 MHz
DATA PROCESSING
Gauss apodization 0.115 sec
Sine bell 0.115 sec
F1 DATA PROCESSING
Gauss apodization 0.011 sec
Sine bell 0.007 sec
FT size 2048 x 4096
Total time 3 hr, 8 min, 41 sec

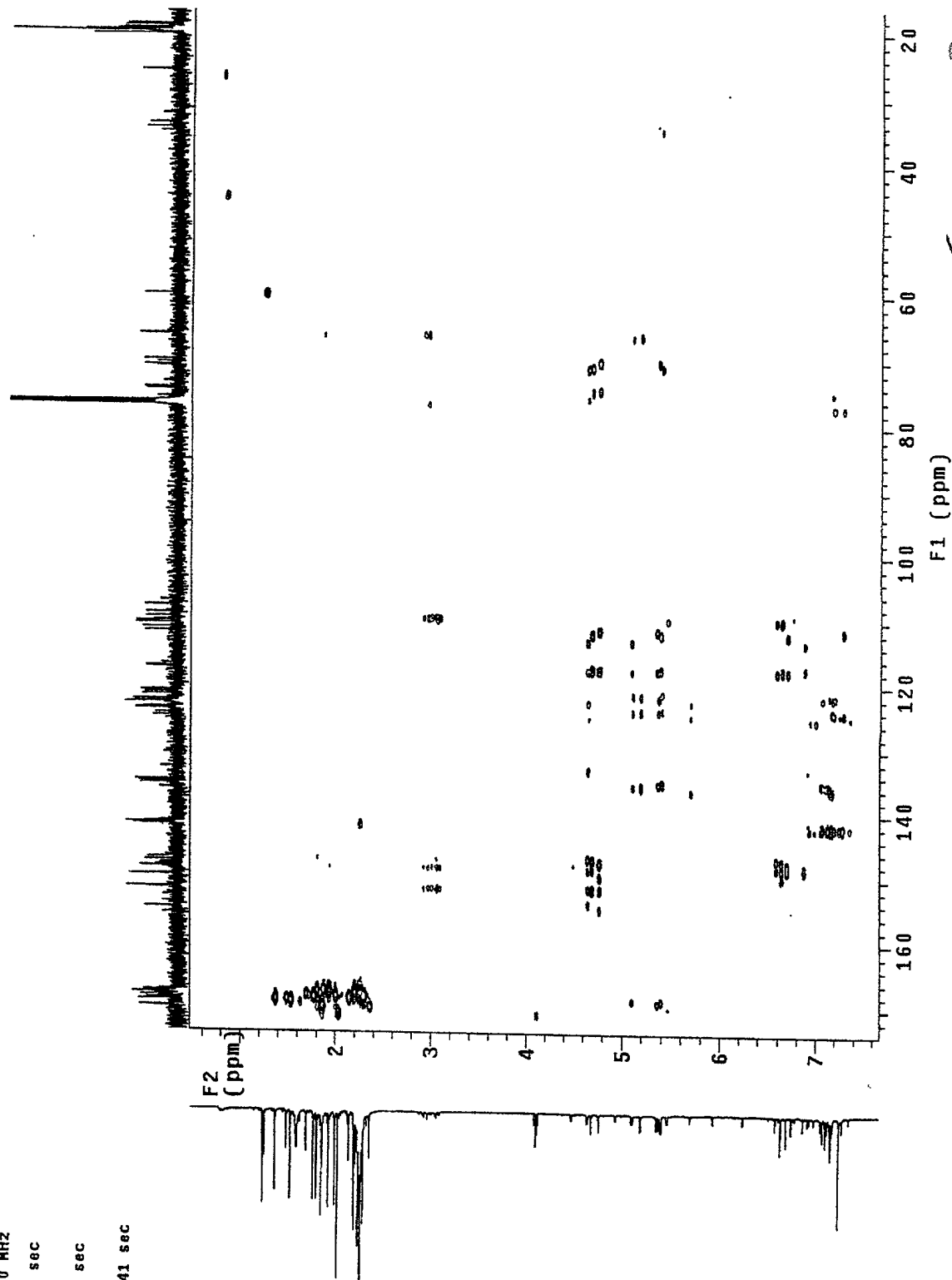


FIGURE 33

Pulse Sequence: CIGAR

Solvent: CDCl₃
 Temp. 25.0 C / 298.1 K
 User: 1-14-87
 INOVA-500 "europa"

Relax. delay 1.000 sec
 Acq. time 0.229 sec
 Width 4467.0 Hz
 2D Width 23021.6 Hz
 32 repetitions
 256 increments
 OBSERVE H1, 499.7981570 MHz
 DATA PROCESSING
 Gauss apodization 0.115 sec
 Sine bell 0.115 sec
 F1 DATA PROCESSING
 Gauss apodization 0.011 sec
 Sine bell 0.007 sec
 FT size 2048 x 4096
 Total time 3 hr, 8 min, 41 sec

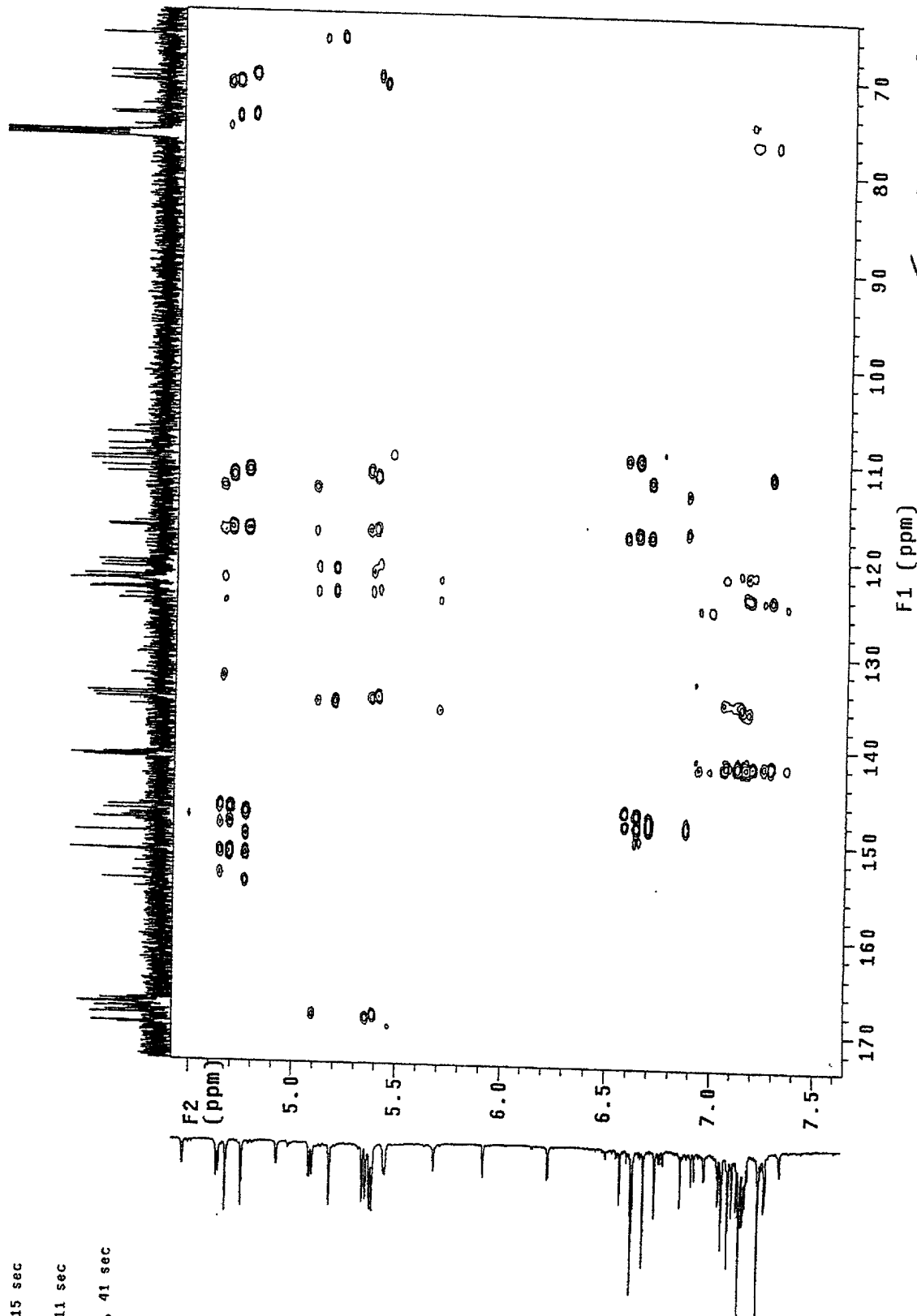
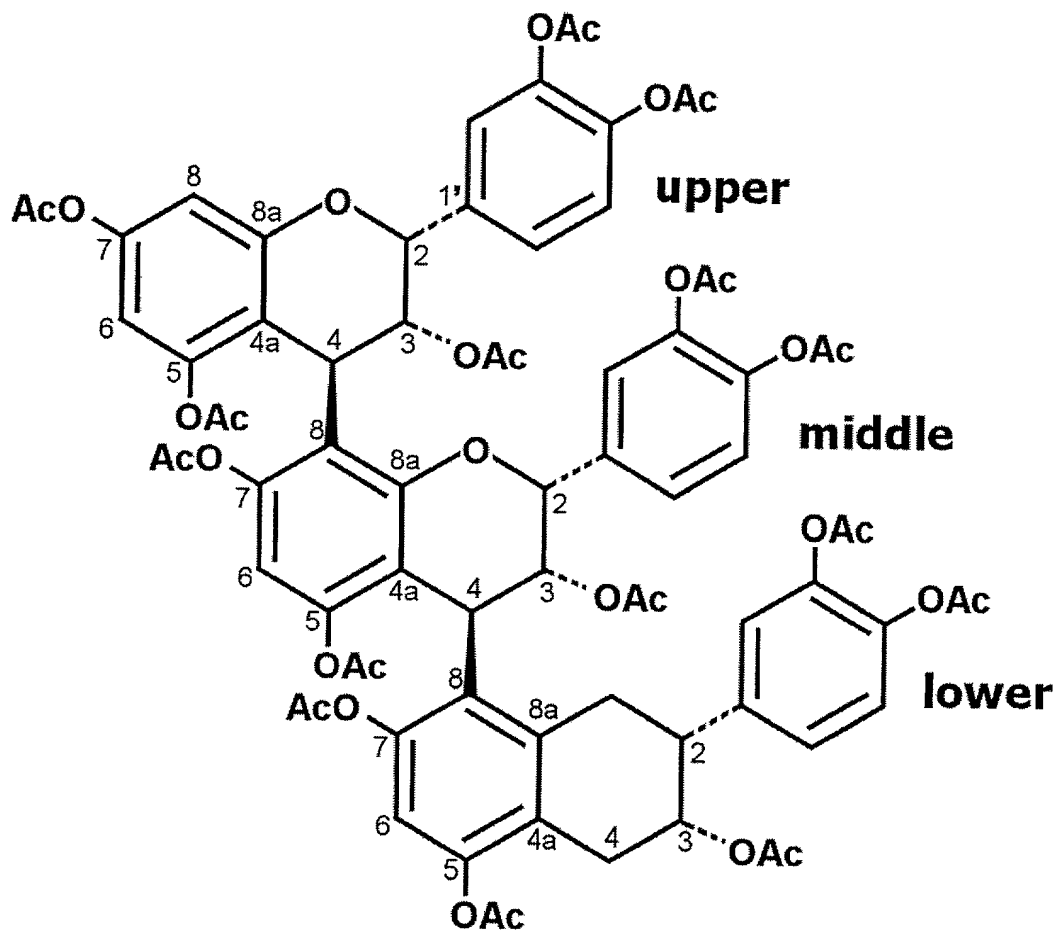
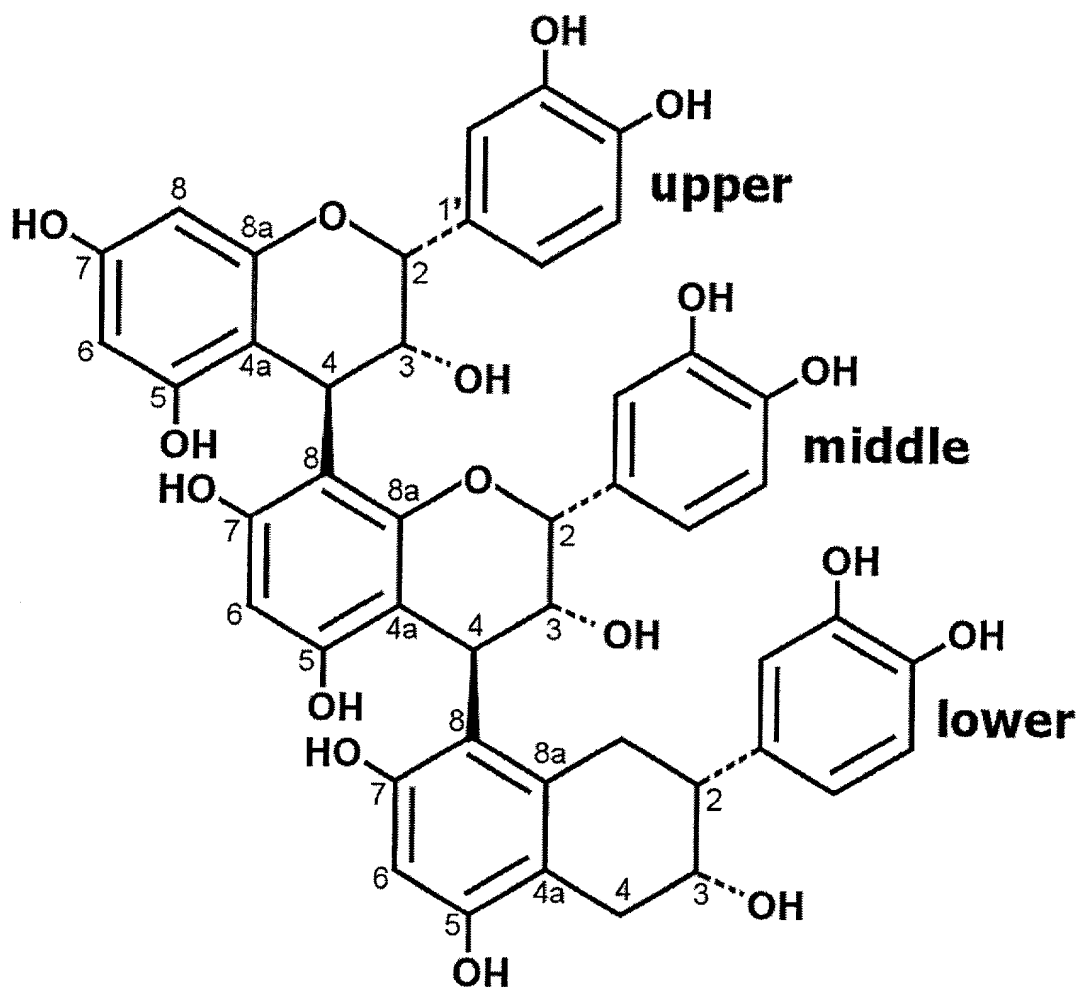


FIGURE 34



— FIGURE 35 —



— FIGURE 36 —

7 Days Thioflavin-T Assay

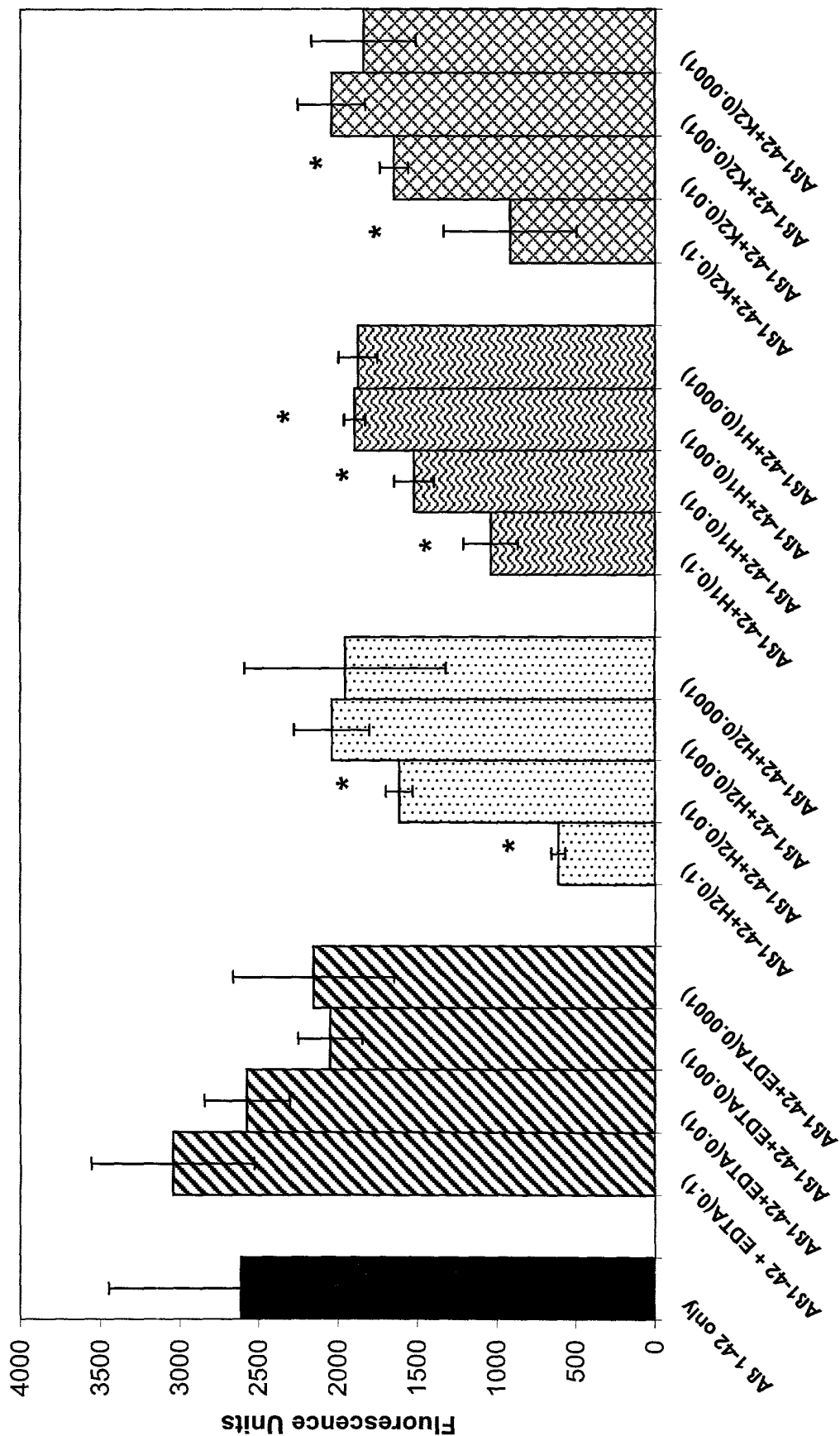
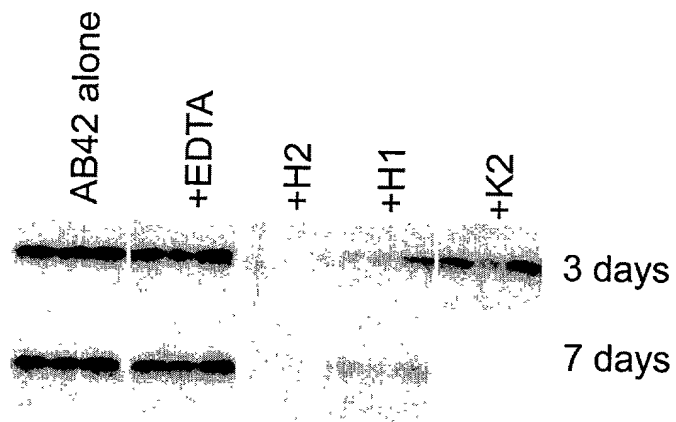
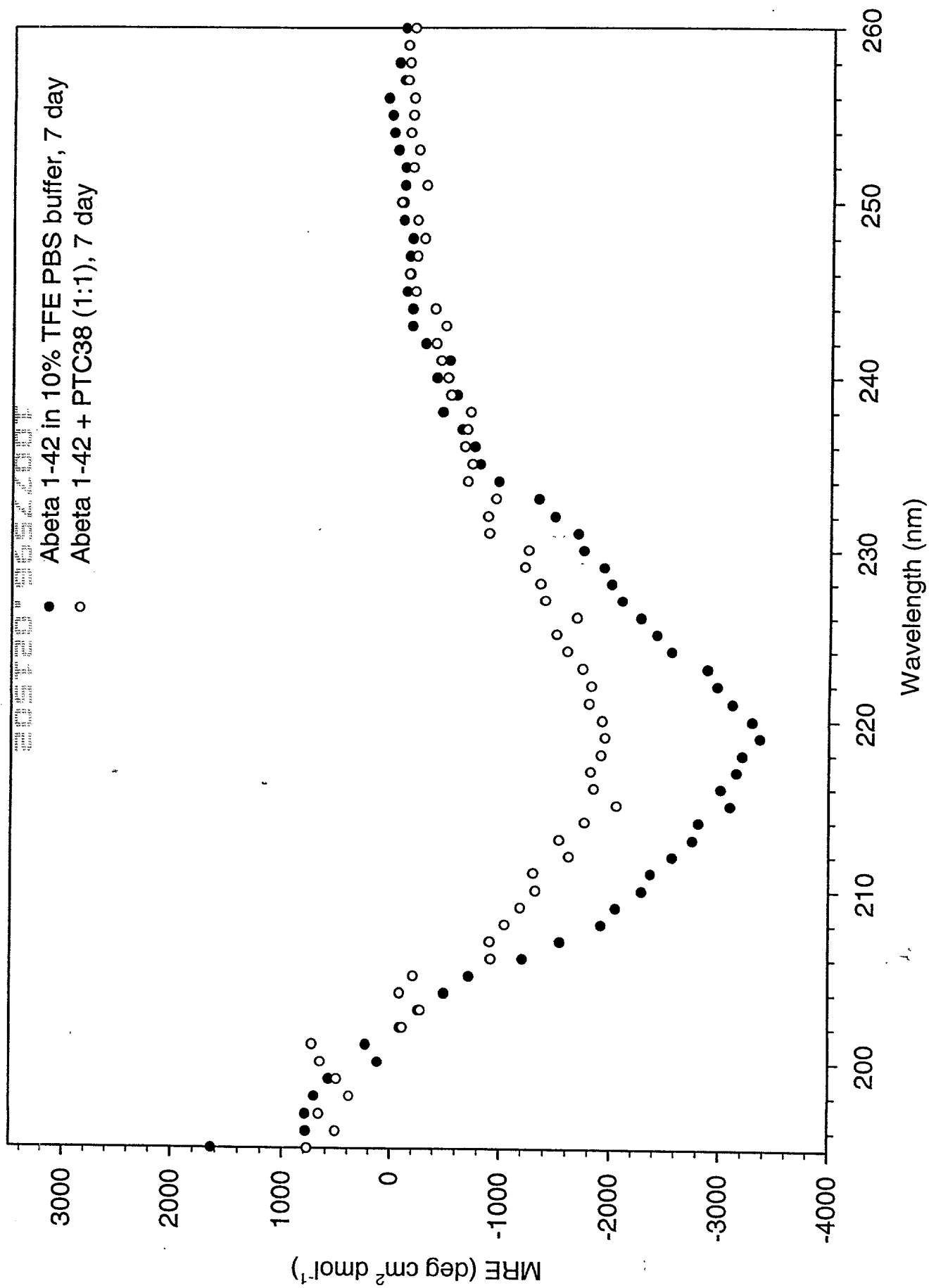


FIGURE 37



— FIGURE 38 —



— FIGURE 39 —

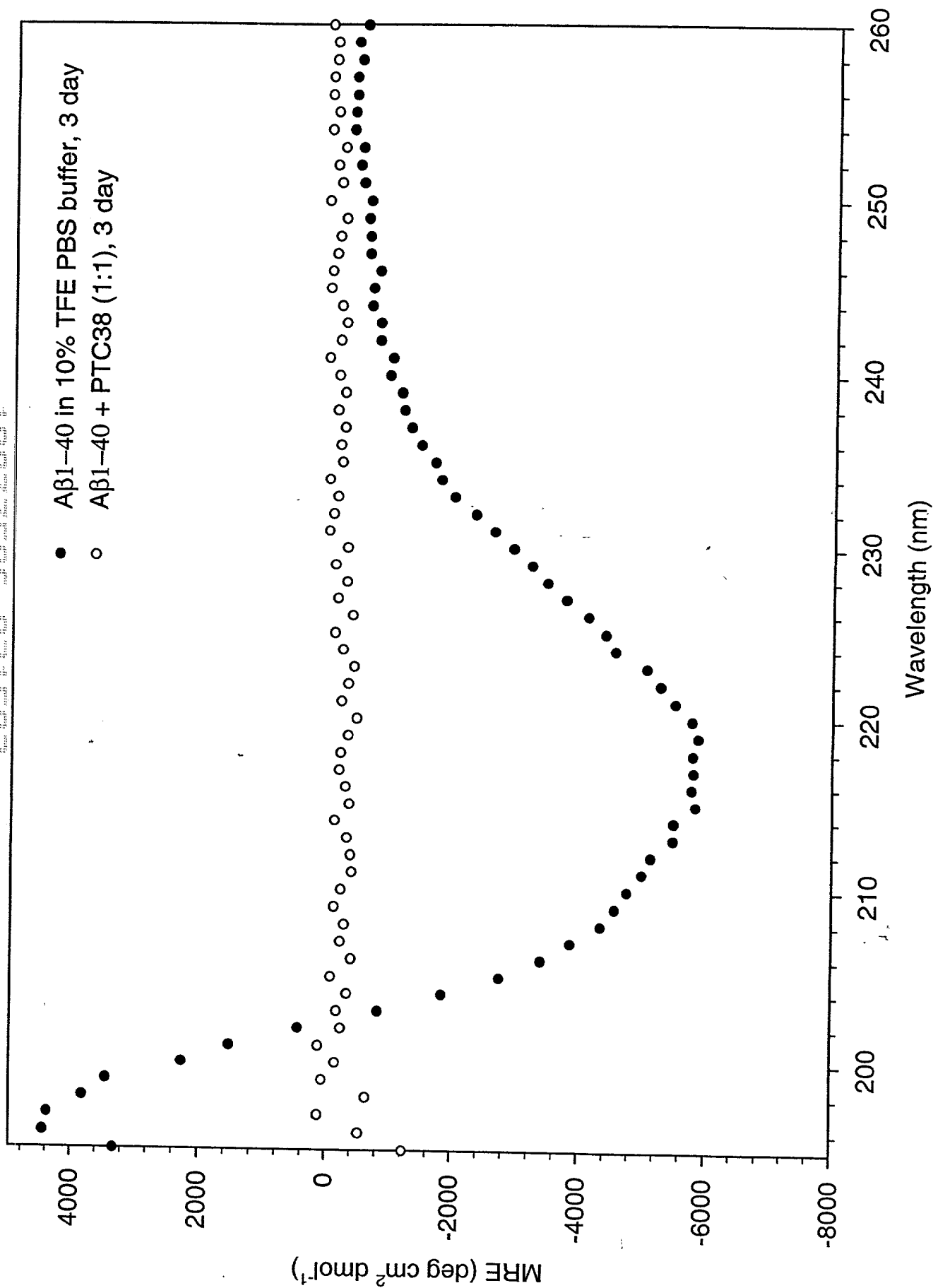


FIGURE 40

7 Days Thioflavin-T Assay

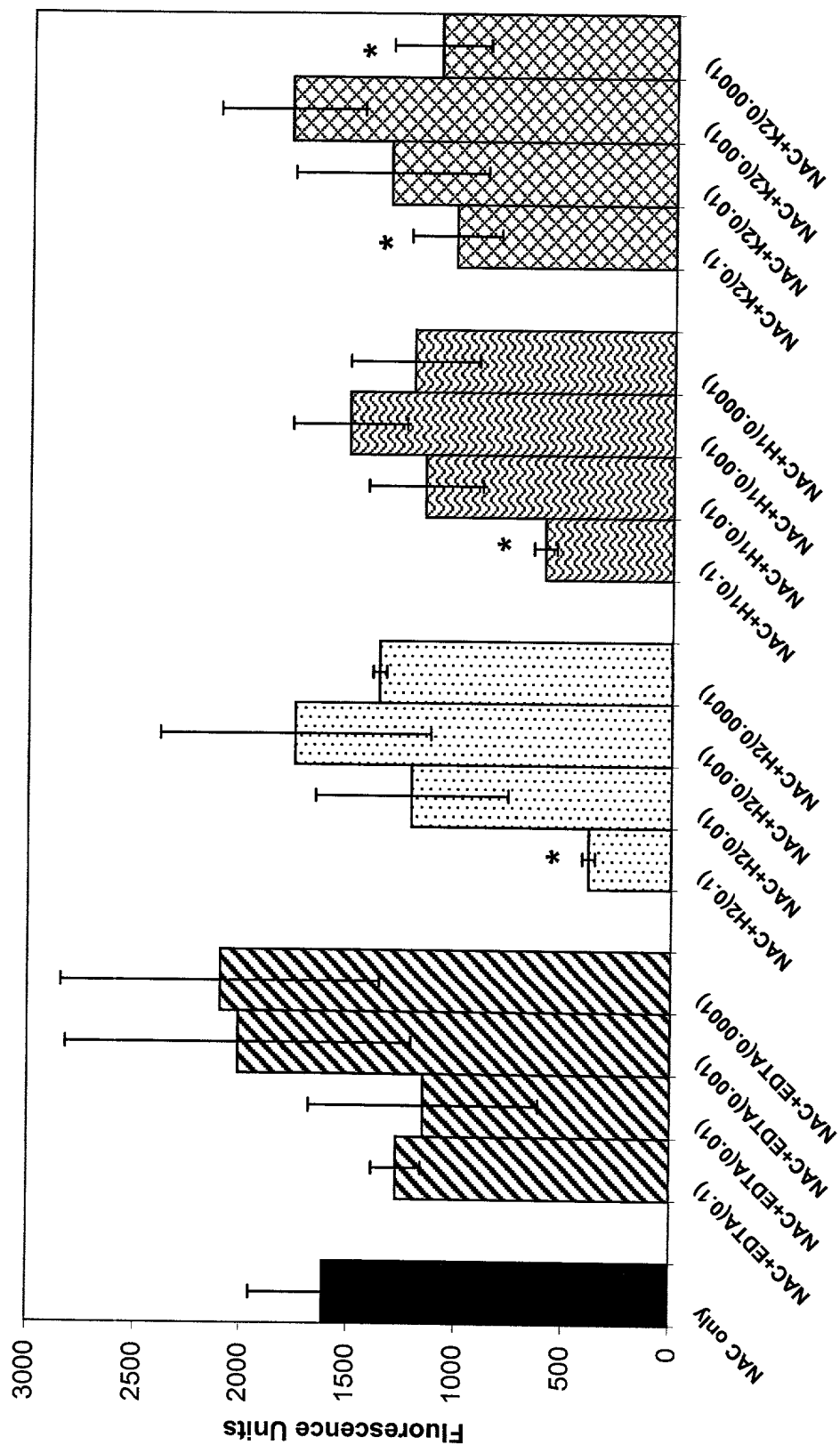


FIGURE 41

7 Days Thioflavin-T Assay

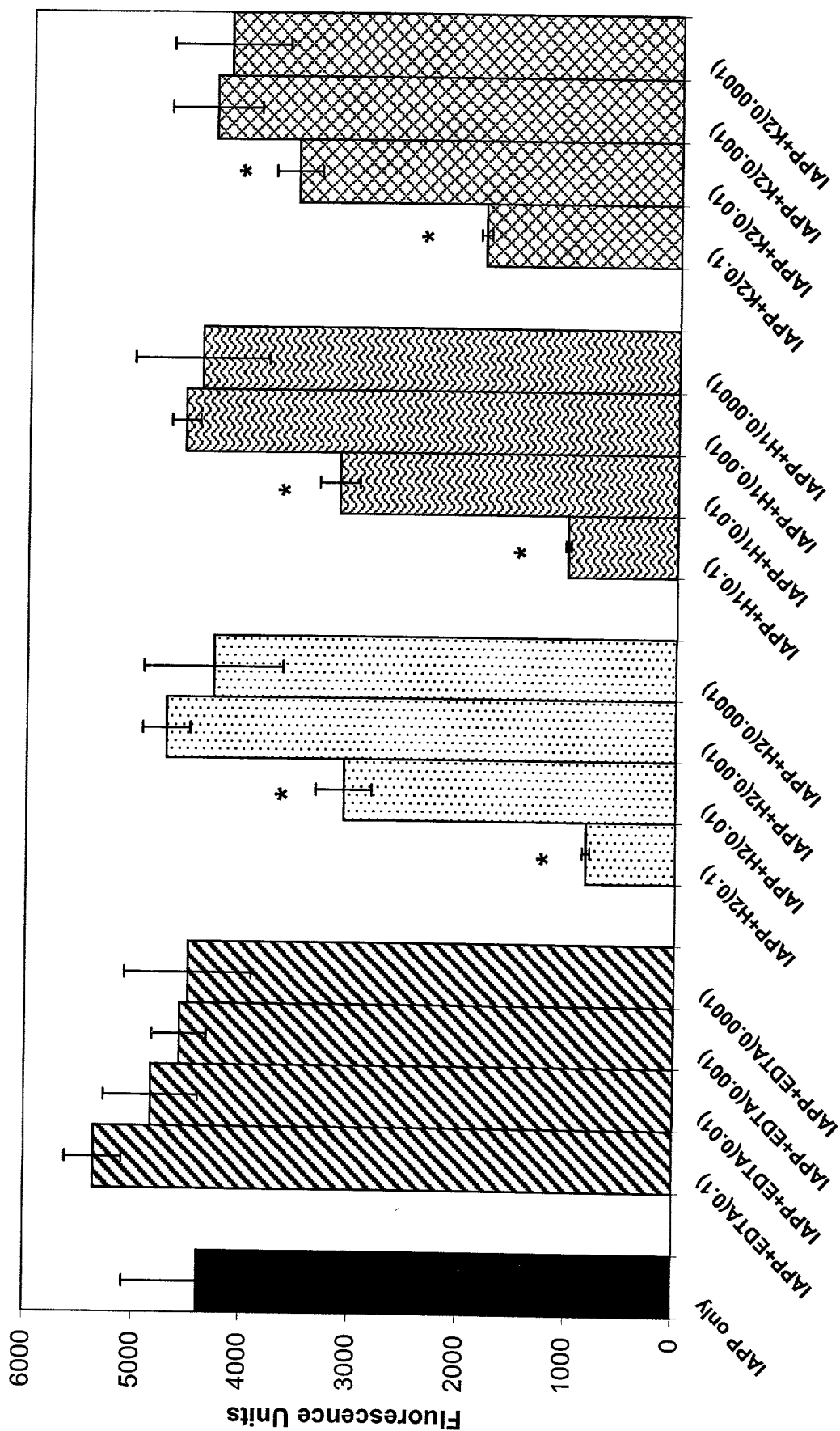


FIGURE 47

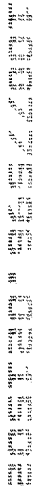


FIGURE 43

**FIGURE 44**

P88-27-40 100 ng INJECTED
CFCRI0087 28 (0.467)

TOF MS ES-
1.09e4

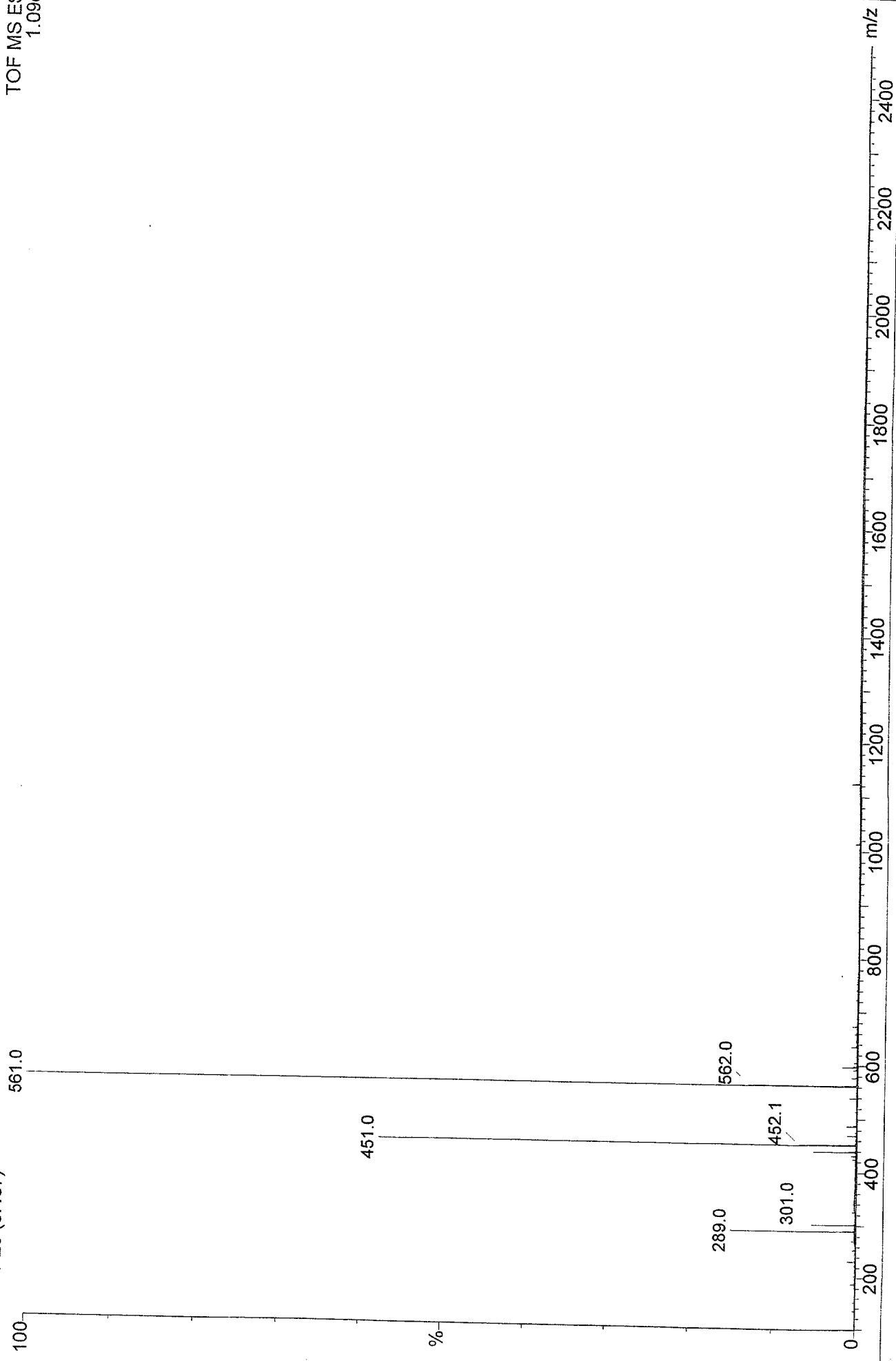
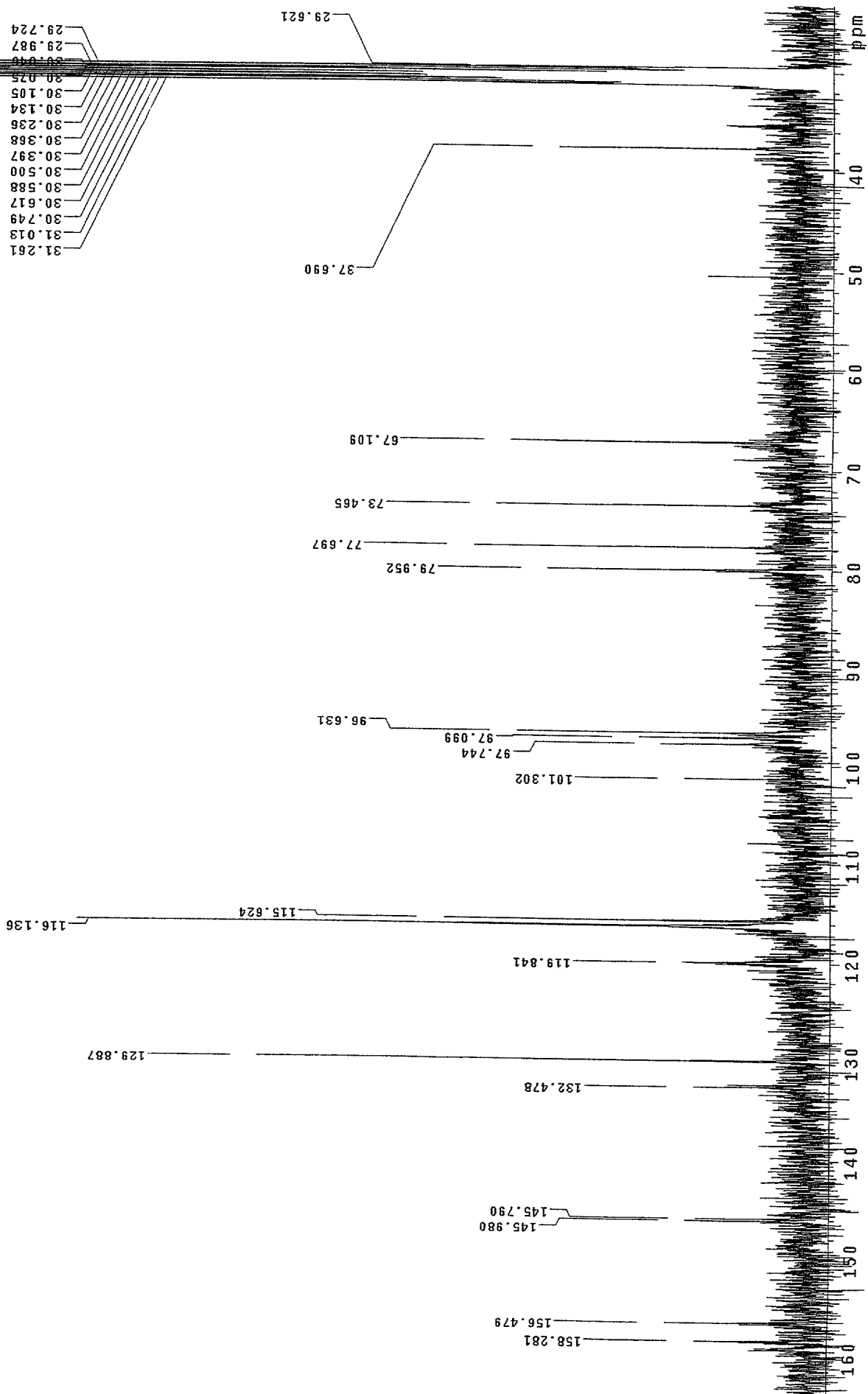
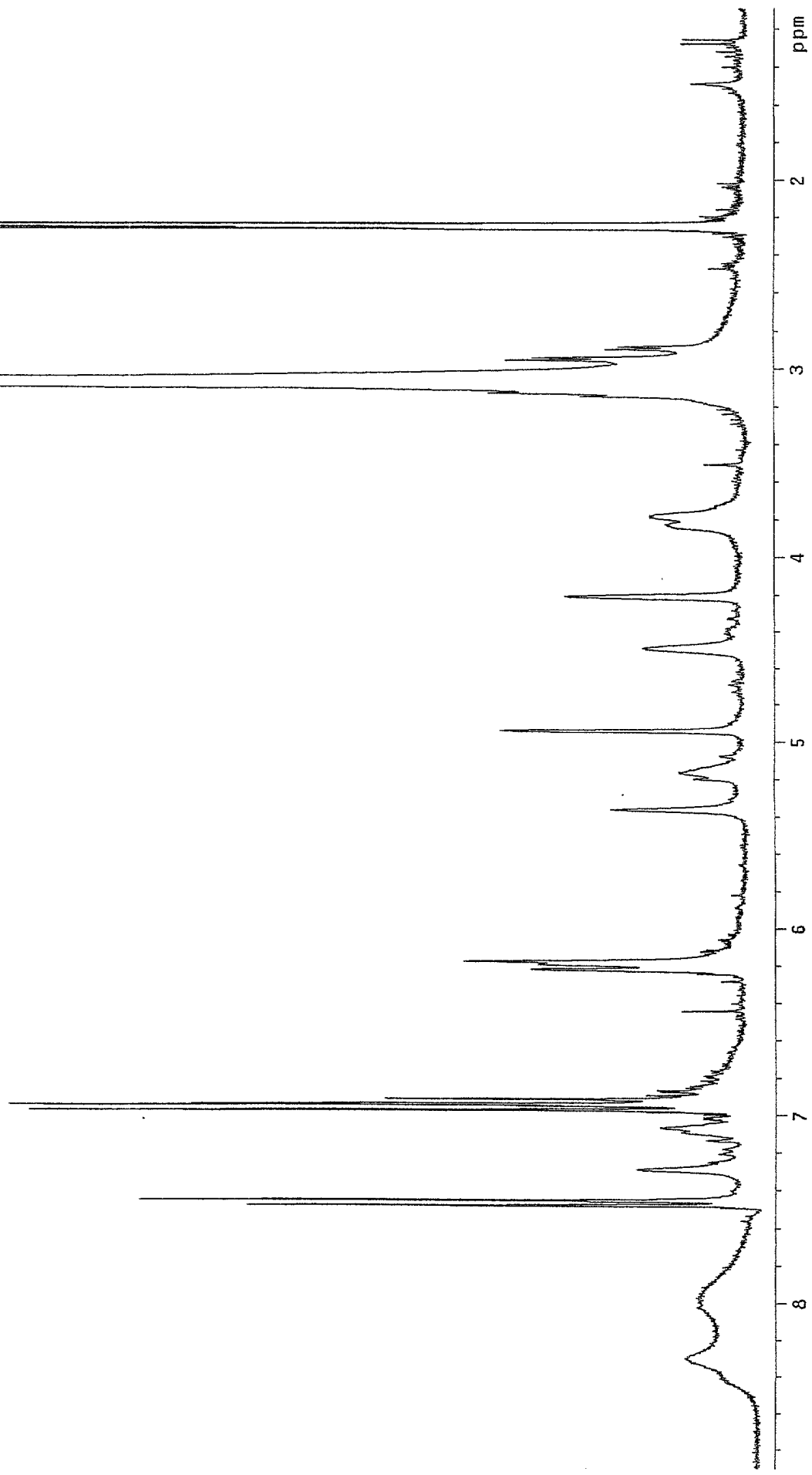


FIGURE 45

FIGURE 46



100% TMS, 100 MHz, CDCl₃, 25°C



— 47 —
FIGURE 47

P88-27-40a

Pulse Sequence: s2pul1

Solvent: CDCl3

Temp. 25.0 C / 298.1 K

INOVA-500 "europa"

Relax. delay 1.000 sec

Pulse 54.0 degrees

Acq. time 3.185 sec

Width 5144.4 Hz

128 repetitions

OBSERVE H1 499.7381577 MHZ

DATA PROCESSING

FI size 65536

Total time 8 min, 56 sec

1.858 1.862 1.961 1.977 2.168 2.245 2.247 2.250 2.263 2.265 2.273 2.284 2.294 2.343

7.250

ppm

FIGURE 48

P88-27-40a

Pulse Sequence: s2pul

Solvent: CDCl₃

Temp. 25.0 C / 298.1 K

User: 1-14-87

INOVA-500 "europa"

Relax. delay 3.000 sec

pulse 54.0 degrees

Acq. time 1.393 sec

Width 23523.4 Hz

16592 repetitions

OBSERVE C13, 125.6592608 MHz

DECOUPLE H1, 499.7406365 MHz

Power 31 dB

on during acquisition

off during delay

WALTZ-16 modulated

DATA PROCESSING

Line broadening 0.5 Hz

FI size 131072

Total time 24 hr, 27 min, 150sec

149.505

127.724

121.350

77.251

76.743

21.081

20.750

20.727

20.644

20.616

ppm

180

160

140

120

100

80

60

40

20

0

FIGURE 49

Pulse Sequence: CIGAR

Solvent: CDC13
Temp. 25.0 C / 298.1 K
User: 1-14-87
INOVA-500 "europa"

Relax. delay 1.000 sec
Acq. time 0.199 sec
Width 5144.4 Hz
2D Width 23529.4 Hz
192 repetitions
256 increments
OBSERVE H1, 499.7381577 MHz
DATA PROCESSING
Gauss apodization 0.100 sec
Sine bell 0.100 sec
F1 DATA PROCESSING
Gauss apodization 0.011 sec
Sine bell 0.011 sec
FT size 2048 x 4096
Total time 18 hr, 23 min, 37 sec

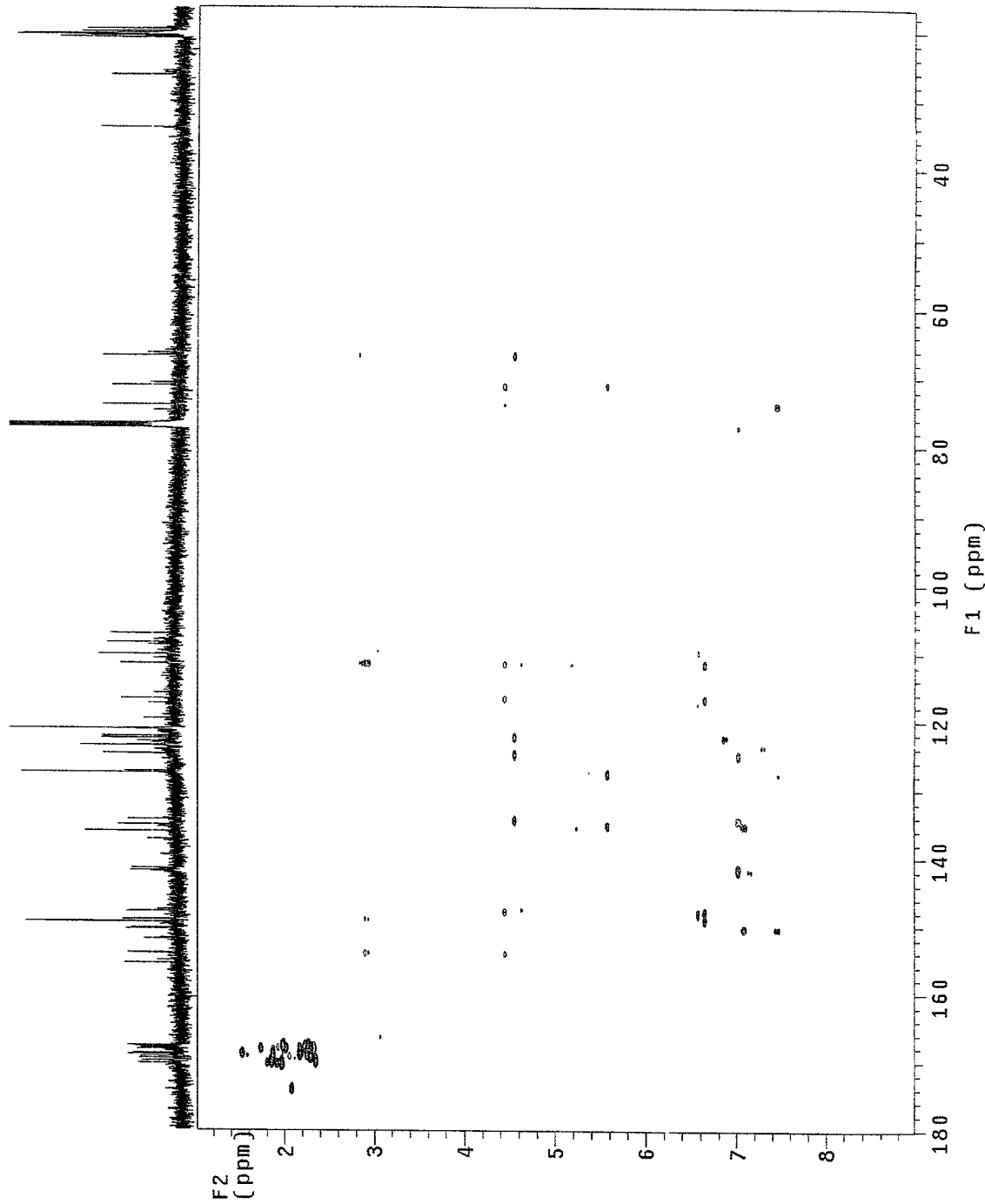


FIGURE 50

P88-27-40a

Pulse Sequence: CIGAR

Solvent: CDC13
Temp. 25.0 C / 298.1 K
File: P88_27_40a_cigar
WORKSTATION "ganymede"
PULSE SEQUENCE: CIGAR
Relax. delay 1.000 sec
Acq. time 0.199 sec
Width 5144.4 Hz
2D Width 23529.4 Hz
192 repetitions
256 increments
OBSERVE H1, 499.7381577 MHz
DATA PROCESSING
Gauss apodization 0.100 sec
Sine bell 0.100 sec
F1 DATA PROCESSING
Gauss apodization 0.011 sec
Sine bell 0.007 sec
FT size 2048 x 4096
Total time 18 hr, 23 min, 37 sec

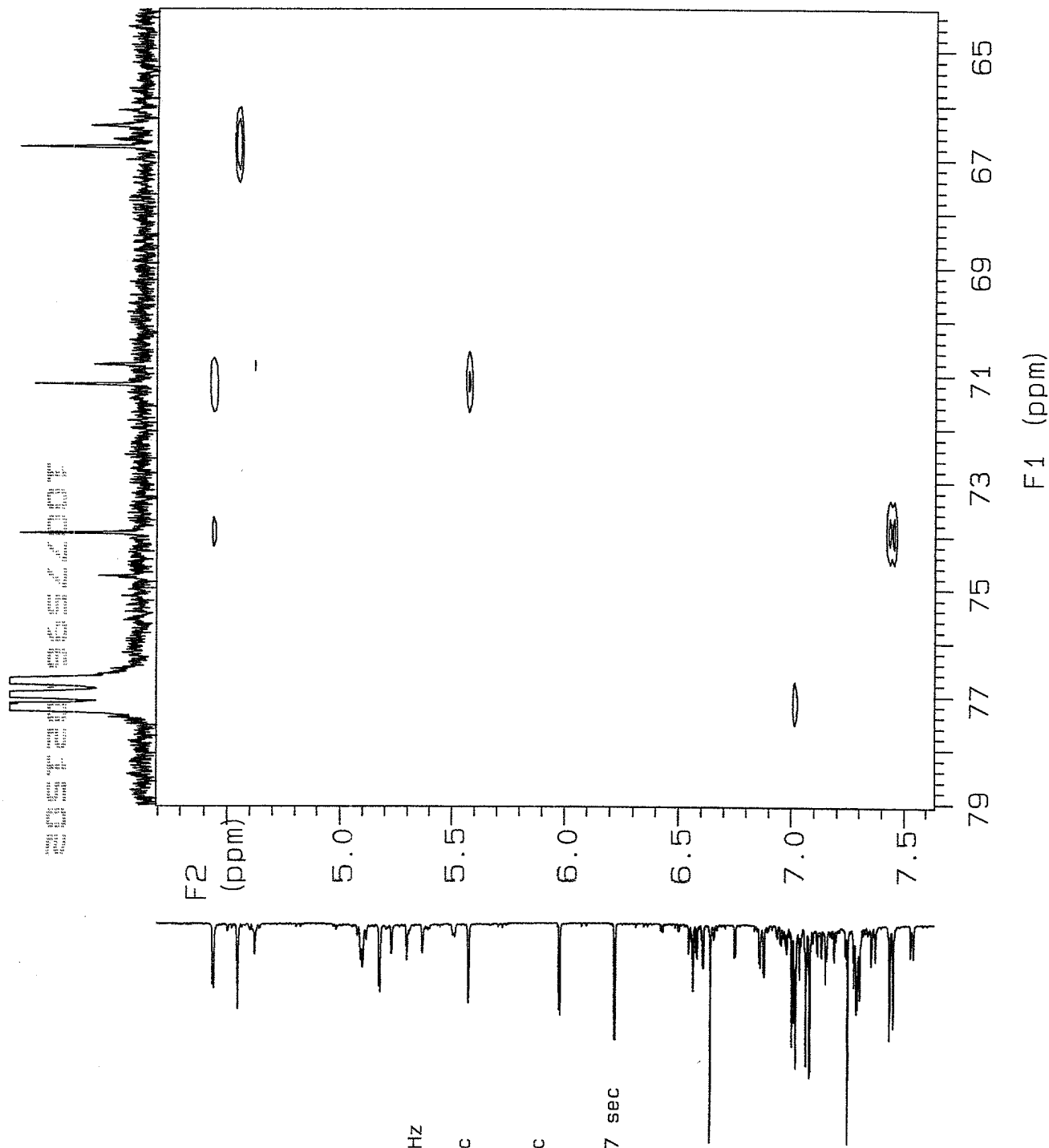


FIGURE 51

P88-27-40a

Pulse Sequence: CIGAR

Solvent: CDC13

Temp. 25.0 C / 298.1 K

File: P88_27_40a_cigar
WORKSTATION "ganymede"

PULSE SEQUENCE: CIGAR

Relax. delay 1.000 sec

Acq. time 0.199 sec

Width 5144.4 Hz

2D Width 23529.4 Hz

192 repetitions

256 increments

OBSERVE H1, 499.7381577 MHz

DATA PROCESSING

Gauss apodization 0.100 sec

Sine bell 0.100 sec

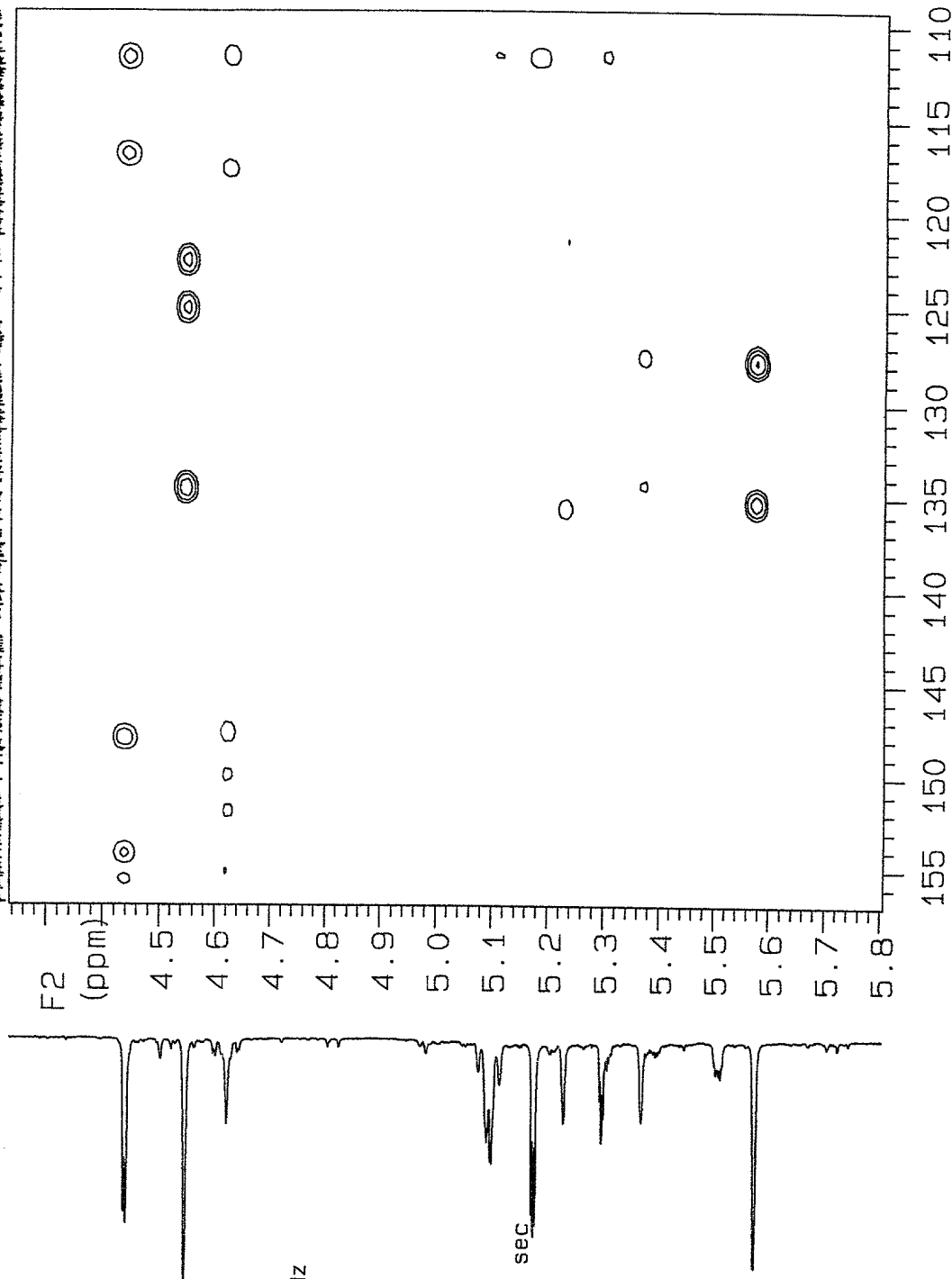
F1 DATA PROCESSING

Gauss apodization 0.011 sec

Sine bell 0.007 sec

FT size 2048 x 4096

Total time 18 hr, 23 min, 37 sec



F1 (ppm)

— FIGURE 52

P88-27-40a

Pulse Sequence: CIGAR

Solvent: CDCl₃

Temp. 25.0 C / 298.1 K

File: P88_27_40a_cigar

WORKSTATION "ganymede"

PULSE SEQUENCE: CIGAR

Relax. delay 1.000 sec

Acq. time 0.199 sec

Width 5144.4 Hz

2D width 23529.4 Hz

192 repetitions

256 increments

OBSERVE H1, 499.7381577 MHz

DATA PROCESSING

Gauss apodization 0.100 sec

Sine bell 0.100 sec

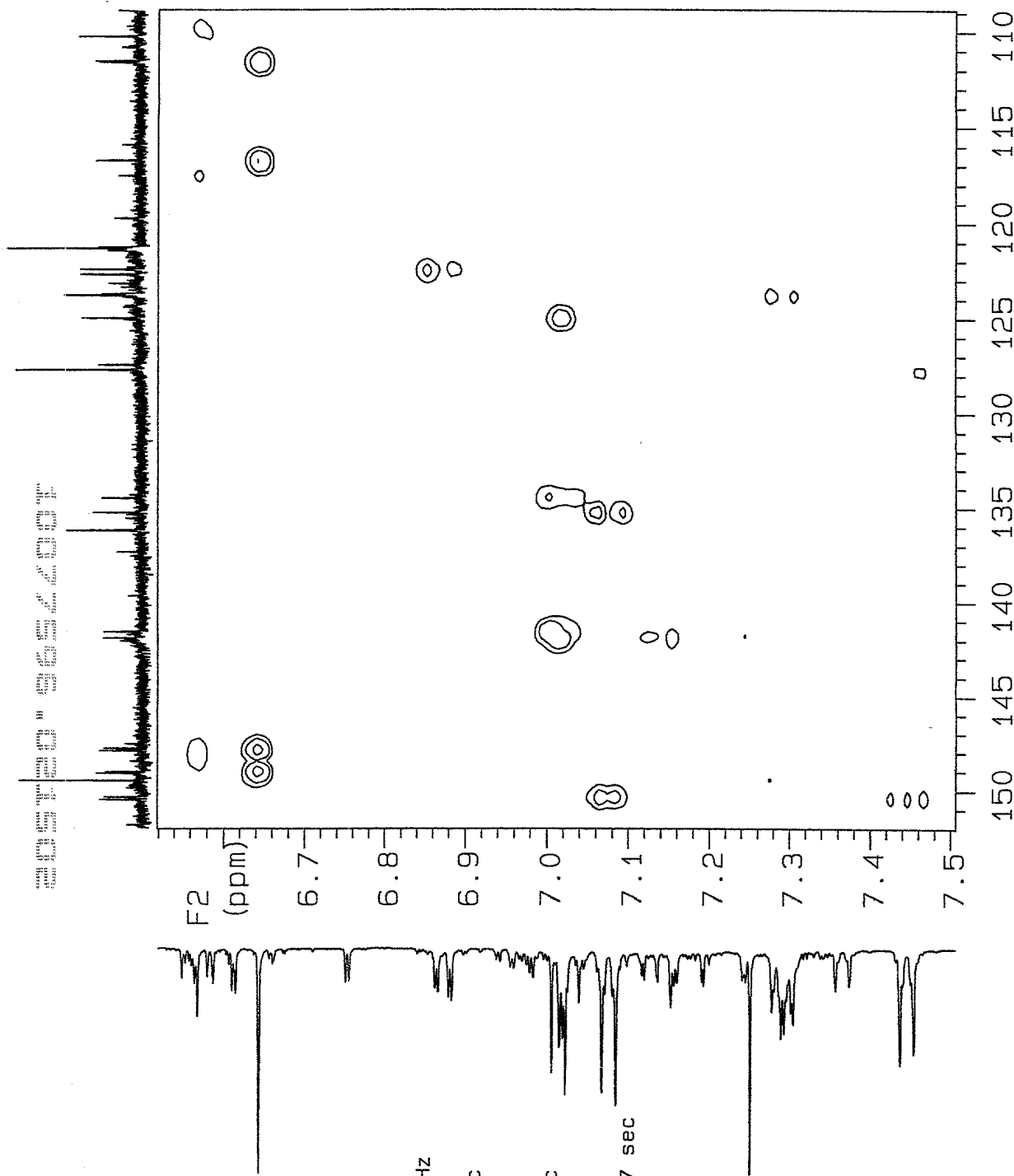
F1 DATA PROCESSING

Gauss apodization 0.011 sec

Sine bell 0.007 sec

FT size 2048 x 4096

Total time 18 hr, 23 min, 37 sec



F1 (ppm)

FIGURE 53

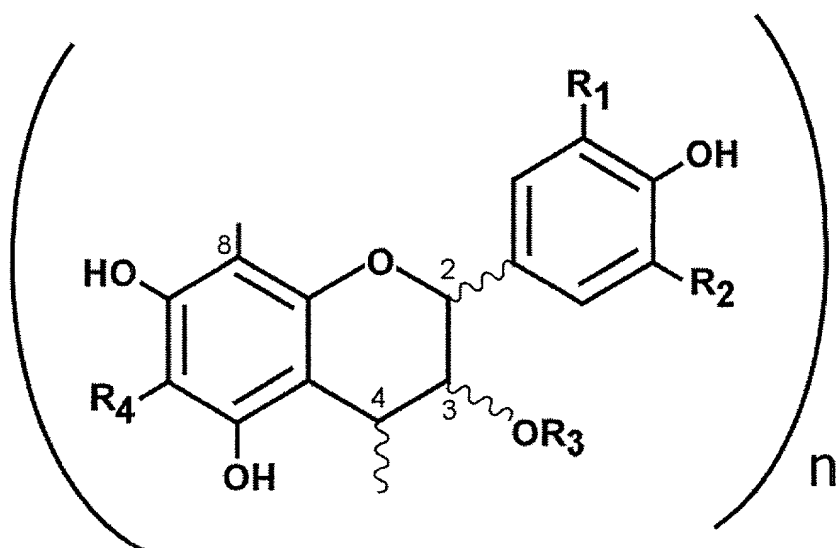


FIGURE 54

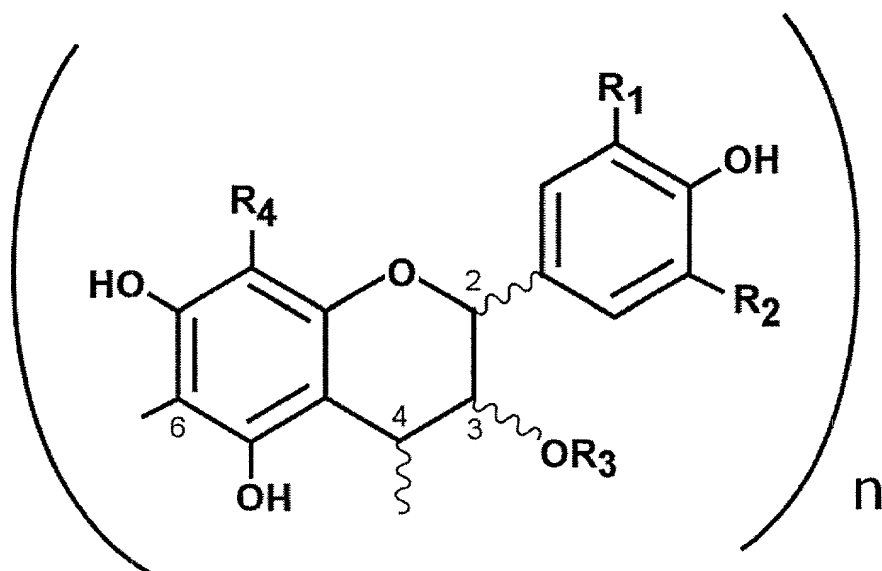


FIGURE 55

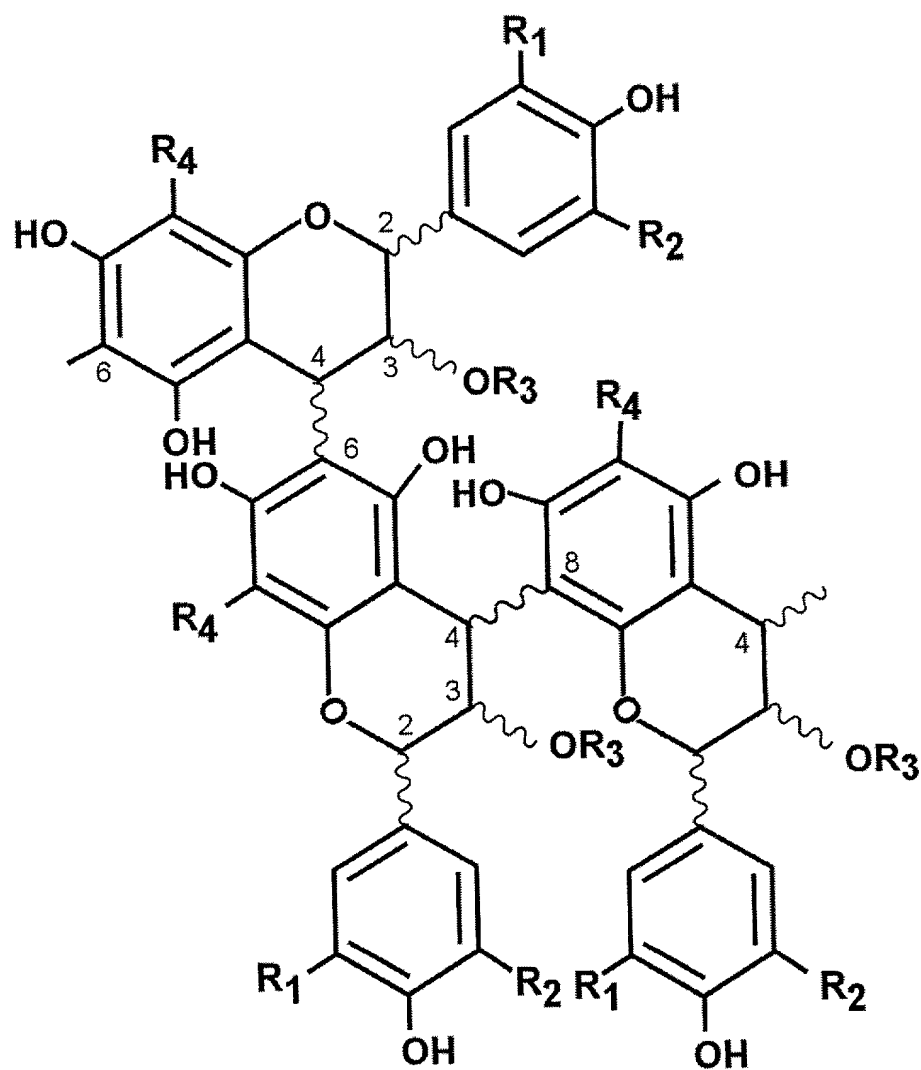


FIGURE 56

100% Methanol in Chloroform
50% Methanol in Chloroform
40% Methanol in Chloroform
20% Methanol in Chloroform
10% Methanol in Chloroform
5% Acetone in Ethanol
10% Acetone in Ethanol
50% Acetone in Ethanol
100% Methanol

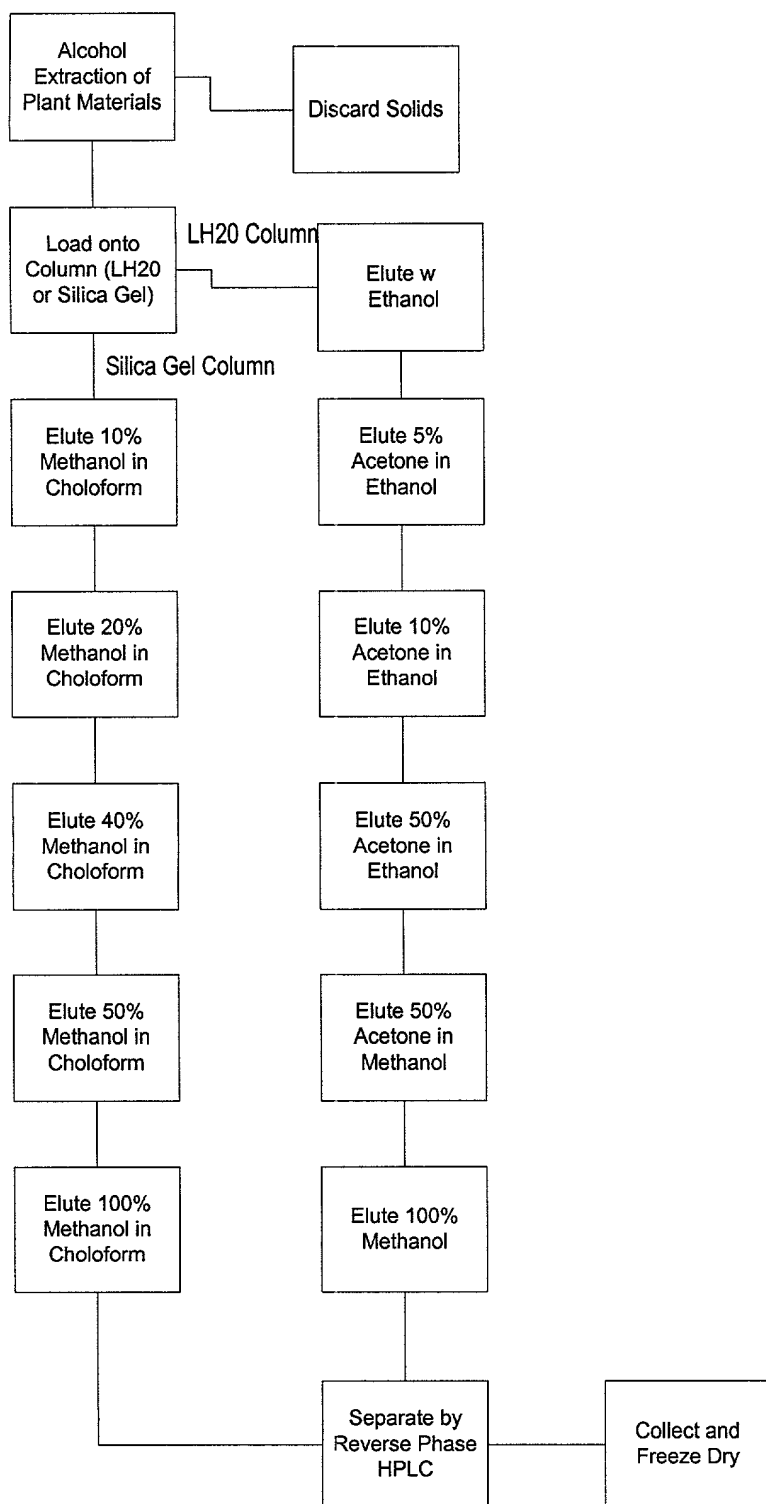


FIGURE 57